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OIL WORL

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NOVEMBER 1958

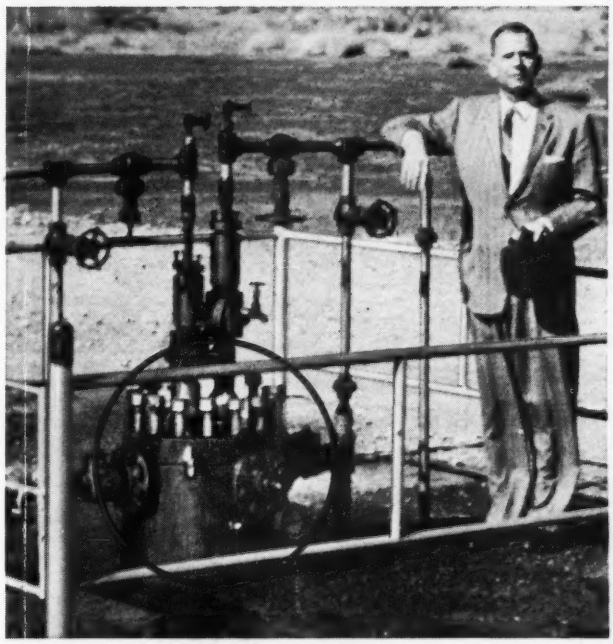
1st Year
Vol. 51
No. 21

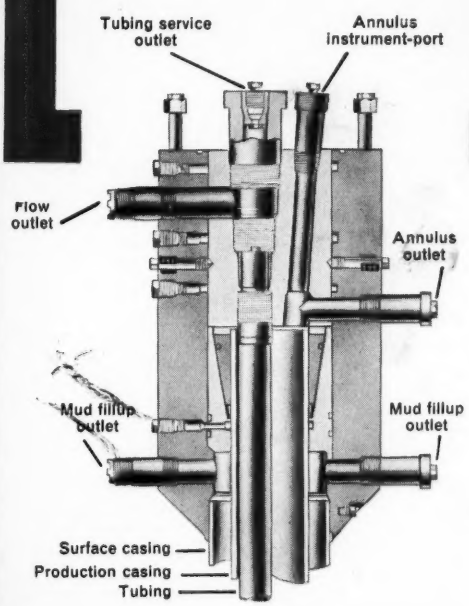
Compact-Safe-Low C

COSASCO UNITIZED WELLHEAD

Dual wellhead and control tree only 22 inches in height!

Three strings of casing and two of tubing are suspended in this COSASCO Unitized Wellhead in West Texas. Both zones are being pumped hydraulically.





Here is a complete wellhead and tree in a single piece of forged steel! It is the most compact, safest, most economical of all wellheads. It is available for single or multiple completions, with or without annulus entry for instrument work, and with gas lift, as required.

Since all outlets and tubing hangers are equipped with COSASCO *Access* Fittings, blowout equipment never needs to be removed during drilling or completion. This assures positive control of the well at all times.

Low original cost; fewer flanges, bolts, nuts, ring gaskets and valves; less standby and rig-moving time; easy conversion to pump; freedom to service one zone of a dual well without interfering with the other... these are just a few of the advantages which COSASCO Unitized Wellheads provide.

What are your well-control equipment needs?

Want built-in safety and positive control during drilling and well completion? Want compactness and simplicity in your control tree? Want to be able to remove valves and other externals regardless of pressures encountered? Want to put one zone on pump without disturbing the other? WRITE, giving full details of operation, and we'll furnish drawings and quotations to show how your requirements can be met. YOU WILL BE UNDER NO OBLIGATION WHATSOEVER FOR THIS SERVICE.

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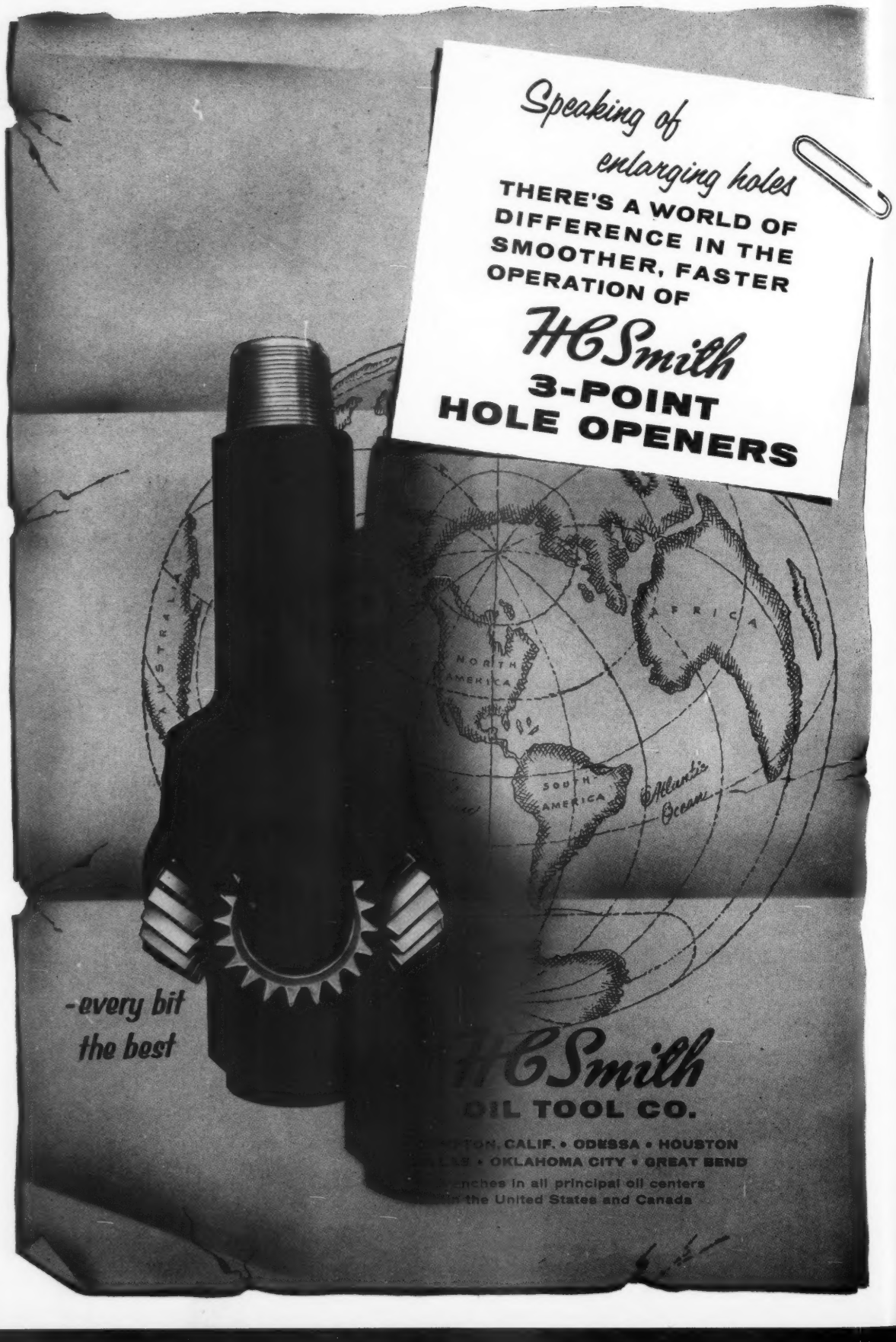
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OIL WORLD

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An Offshore Site for Twenty Five Wells

You begin to be aware of comprehensive planning and meticulous execution of a mammoth project as you start climbing the steps of the drilling platform erected by Standard Oil Company of California, Western Operations, Inc. for the drilling of twenty five wells a little more than two miles offshore near Summerland, California. There, just above the waters of Santa Barbara Channel, you first see, as you climb, flared-top guides for the surface strings of the twenty five wells—five rows of them with five guides in a row with the pipe of the well being drilled passing through one. See Fig. 1. When you arrive at the basic platform deck your appreciation of the structure and the operating equipment increase, and continues to increase as you go along.

The lease on which the wells are to be drilled, assuming that commercial production is discovered, consists of 5500 acres acquired jointly by Western Operations, Inc. and Humble Oil & Refining Company in January 1957 for a cash bonus payment of $7,250,000. The total expenditure on the project, including geophysical and preliminary coring expenses, however, passed the $12,000,000 mark by the time the present drilling well was spudded in. Operation is by Standard Oil Company of California, Western Operations, Inc. producing department, under J. E. Toussaint, vice president and general manager; W. C. Johnson, manager, Southern Division; and David Goodwill, district superintendent, Summerland.

The Tower

The basic platform deck is 110′ x 110′. This was constructed on the supporting tower after it was set in place at the location. The tower is 75 feet square with the bottom of each of its four legs consisting of a caisson 27 feet in diameter and 40 feet high, as shown in Fig. 2.

The tower was constructed in San Diego and towed 210 miles at a speed of three knots to its location. This took three days but no difficulty was experienced. (See Fig. 3.) The height of the tower is 170 feet and during the towing operation the caissons were pressurized to prevent water leakage and were ballasted with sand to acquire the necessary stability. They drew water to not far from their tops during the towing operation.

Positioning the tower necessitated the services of a huge derrick barge as long as a football field. The derrick boom, 220 feet in length and with a capacity of 250 tons, steadied the tower and regulated its descent as the buoyancy of the caissons was reduced. When the caissons were on bottom they were sunk deep into the ocean floor by means of high-pressure water and air jets until they rested on hard ground.

The caissons are attached to the 36-inch diameter tubular legs of the tower by steel plates which divide the interior into sections. Each section has a manhole at the top and through these manholes sand and cement were pumped for final anchoring.

It should be noted that this method was used because, unlike offshore installation in other places such as the Gulf Coast, this platform is in approximately 100 feet of water and is on a more steeply sloping shelf than other locations, the shelf being covered by a very thin layer of silt or similar material.

The Platform and Derrick

The basic deck is about fifty feet above the water and above this are two other decks, the top one being the derrick floor. These, together with the drilling derrick, were hoisted by the derrick barge which was used throughout the construction.

On the basic deck is most of the auxiliary equipment and locations for the Christmas trees when the wells are on production. Above the derrick floor and at the end of the pipe rack is the landing platform for the helicopter which is used for changing crews and other purposes when weather conditions do not make it impracticable.

As can be seen in Fig. 1, the drilling derrick is of unusual design. It is 40 feet square at the bottom and 30 feet square at the top, which is nearly 220 feet above the water. The height of the derrick itself is 140 feet.

The crown of the derrick is so constructed that the crown blocks can be moved back and forth and from side to side to place over any of the twenty five well locations. Also, the drawworks can be similarly moved. After the first well is completed, the company will probably drill two wells at

once since the platform was designed for dual operation.

The long-range plan is to drill holes directionally to approximately 20-acre spaced bottom hole locations. It is also expected to keep the bore within a 20-foot diameter cylinder throughout the depth. The drilling equipment is designed for depths of 10,000 feet if necessary.

Safety Features

The design of this versatile platform was the result of investigations begun over two and one half years ago in the corporation's engineering department. Practices in the Gulf, on the east coast at the "Texas Tower" radar installations, and basic fundamental theory were all combined to meet the particular Pacific Coast conditions. Actually the project is the culmination of five years of exploration and planning by Standard and its partner in the venture, Humble Oil & Refining Company.

Safety to men and well was given full importance and every means has been taken to insure this safety under any emergency. Blowout preventers and hydraulic control gates are installed during the entire drilling operation. All precautions are taken to eliminate the possibility of a blowout.

The power used is electric and is transmitted through a submarine cable at 16,500 volts. It is transformed to 440 volts at the platform. All motor housings are pressurized to prevent accumulation of dangerous mixtures. In fact, all enclosed structures are so pressurized. What are called "sniffers" are located throughout the platform and any gas present at any point causes one of these to howl and give the location.

In case of power failure while the bit is on bottom, two generators automatically go into service. These supply sufficient power to pull the bit off bottom.

In murky weather blasts from a fog horn keep passing vessels away. At all times, one or two tug-sized surface vessels and a helicopter are standing by to move personnel and equipment back and forth to shore.

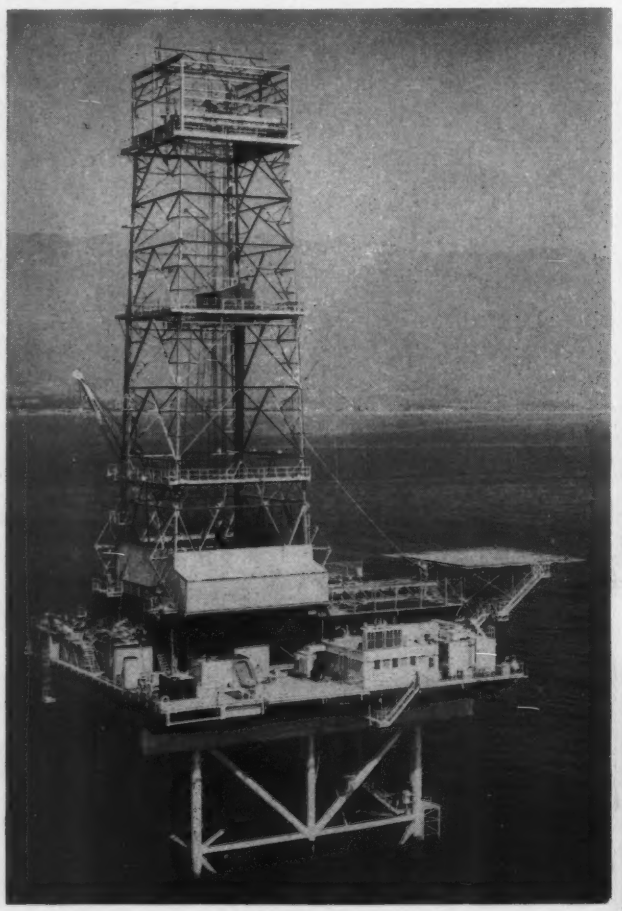

Fig. 1
A view of the offshore drilling platform with the first exploratory well being drilled. Behind and to the left of the derrick can be seen the crane for handling materials and equipment to be loaded on and off the platform. To the right is the helicopter platform.

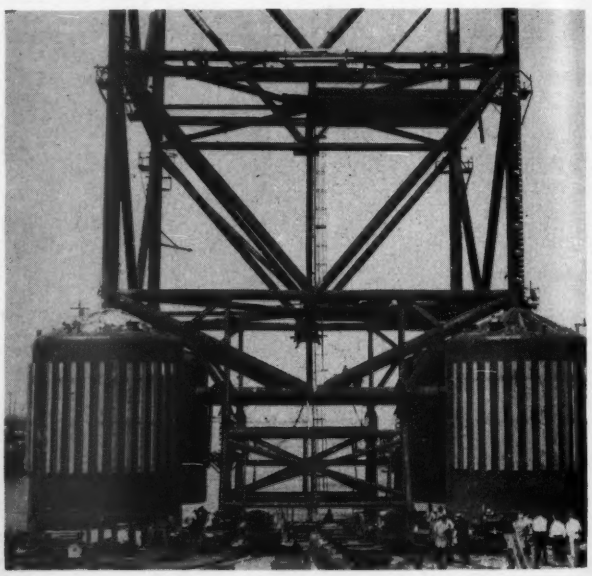

Fig. 2
The size of the caissons can here be appreciated as they are shown before launching. Compare the size with the men standing at the extreme right.

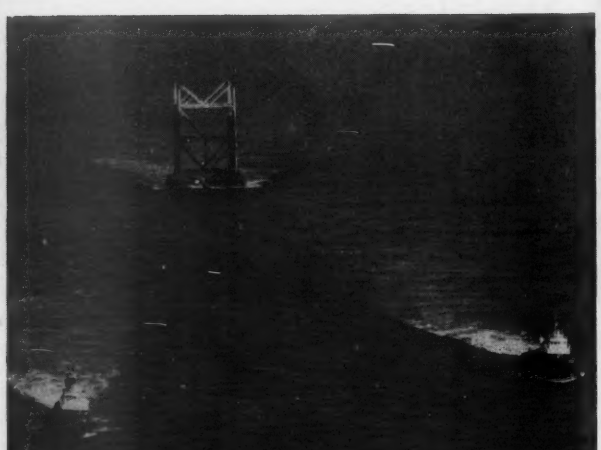

Fig. 3
The tower is here being towed from San Diego to its location offshore near Summerland.

While the Pacific waves seldom boom higher than 25 to 30 feet for periods of 24 to 36 hours, the platform was designed for 50-foot waves. As for corrosion, three points of protection were provided for. One involves electrodes at the bottom, another the use of a monel sheath on the metal below the water line, and the third the use of a protective paint above.

Production

On the basic deck provision has been made for the installation of Christmas trees with piping capable of handling oil, gas, water, etc. For fire protection in the bays where these hook-ups are located there are automatic spray nozzles similar to those in buildings. In addition, there are water nozzles in the sides that flood the installations in case of fire.

Commercial production, if developed, will be piped ashore to gathering and treating facilities yet to be constructed.

Upon completion of a full complement of wells, the derrick and most other equipment will be removed from the platform, leaving only automatic production devices.

When wells are not flowing they will be produced by gas-lift. The gas produced will be reinjected.

Pollution Prevention

When a well is drilled on the ocean there are various rules and regulations by sundry governmental offices that must be observed. In the case of this platform there are regulations by the Coast Guard, the U. S. Corps of Engineers and others. All these have to be followed.

Then, of course, there is the matter of pollution by oil; but in addition to reasons for prevention of oil on the water, the matter of fish life had to be considered. It was believed by those in charge of fish life that the cuttings from the well while no oil was encountered would be good for the fish. They were right. You can look down from the platform and see fish darting around in all directions. The fishermen round about the area have discovered this; so fishing boats hover around the platform and even tie onto the mooring buoys around the structure.

When an oil sand is reached, however, cuttings will not be deposited through a vertical pipe to the water as at present. Under the shaker screens is a two-way conveyor. This takes the cuttings in one direction when there is no contamination. When an oil sand is penetrated, the conveyor is reversed and the cuttings are carried to a receptacle where they are treated and processed. They then go to the ocean. Should the contamination be such that the treatment is unable to meet the requirements, the cuttings are stored and then hauled to shore.

Burns Accepts Oil Congress Presidency

H. S. M. Burns, president of Shell Oil Company and chairman of the board of directors of the American Petroleum Institute, has accepted the presidency of next year's meeting of the World Petroleum Congress, it was announced by the Congress Secretariat.

As Congress president, Mr. Burns will preside at the more important functions planned for the meeting.

The Congress, the fifth to be held in the past quarter century, is scheduled for New York May 30-June 5, 1959, and is expected to draw 5,000 to 6,000 executives, scientists and technologists from 50 countries.

H. S. M. Burns

Guest speaker and international guests at the November 5, 1958 meeting of the Los Angeles Chapter of Nomads. Left to right (standing) J. L. Mathieu of Schlumberger Overseas from France; A. Cendre of A. C. M. from France; Al Dysart of International Brown from Turkey; Ray Conger of International Brown going to Guatemala; L. E. Miles of Santa Fe Drilling awaiting assignment; Leon Duane of Petro Mara from Venezuela; W. H. (Buck) May of Santa Fe Drilling going to Guatemala. (Seated) Arthur R. Little of D & E from Nigeria; Bill Lance of Santa Fe Drilling from Burma; A. E. Patterson of the Los Angeles Dodgers, speaker; Vernon E. Clayton of I.P.C. from Iraq.

THE GRAPEVINE

By RICHARD SNEDDON

P.P.P. Life Members

According to Ben Parsons, the former G.P. executive, now giving generously of his time to Petroleum Production Pioneers, fifteen well known oil men have been awarded life membership in the organization and will receive their gold cards at the annual meeting of the group which will take place at Rodger Young Auditorium on Saturday, December 6, 1958. Those named are as follows: Claude H. Bills, Superior Tank & Construction Company; W. S. Fisher, Section 30 Oil Company, Coalinga, (retired); S. W. "Red" Hardison, General Petroleum Corp. (retired); K. C. Hayes, Standard Oil Company (retired); H. H. Maddren, former Republic Petroleum Company executive, now an independent operator; C. J. "Mac" McLaren, Hughes Tool Company (retired), currently Memorial Fund Chairman of P P P; Hans C. Ross, Baash-Ross Tool Company (retired); K. N. "Judge" Saatjian, The Texas Company (retired); R. M. Miller, Ohio Oil Company; Charles Bunje, Jr., Ohio Oil Company (retired); John F. McAleese, Standard Oil Company (retired); Paul Andrews, Signal Oil & Gas Company; and the three men who originally conceived the P P P idea; S. H. Grinnell, former Union Oiler, now running his own organization, Grinnell Associates; Glenn Merkley, National Supply Company; and B. Bronzan, Baash-Ross Tool Company.

Western Pipe Liners Meet

Following a luscious steak dinner served to 46 members and guests of the Western Pipe Liners Club, in the Sky Room of the Saddle & Sirloin restaurant in Bakersfield recently, President Howard Robinson called the meeting to order at 9:25 p.m. and was immediately submerged in a miscellany of contentions. First order of business was the fining of Don Grindlay in the sum of one simoleon, toad, or greenback, for a minor breech of etiquette, the president making clear that it was merely minor for Don. The latter, on the other hand, stoutly maintained that this was much more of an imposition than a fine and stated that the Club might expect to hear from his lawyers, Godevil, Pullthrough, and Slipblank, any minute.

Increase in Avocado Prices

With a lady speaker on the program, Howard Robinson was mortally afraid that some of the pipe liners would behave like pipeliners, but he was agreeably surprised. In fact he warmly complimented Tony Alcorn, Mac McKeany and the entire Shell group on their quite unexpected exemplary conduct. A suggestion from Tony that prior fines be refunded to the Shell contingent in recognition of its new found virtue was turned down flatter than an oblate spheroid. Curly Working, chairman of the Welfare Committee, turned in a report that was much below organization standard. This, in addition to the fact that he sported a ten-gallon sombrero on a five gallon cabeza, and failed to wear the traditional pipetimers' bowler, brought him a storm of censure and a fine of five pesos. Watch for a rise in the price of avocados!

Edwin M. Bedford

Golf They Played

During the day the boys had engaged in what they laughingly called a golf tournament at Stockdale, and following dinner, tournament chairman Neil Sinclair presented prizes to all who had managed to hack their way through the jungles back to the Clubhouse. Among those who received awards for keeping their temper were Tony Alcorn, Don Frame, and Nick Ugrin, all of whom turned in scores that would have been dandy on a bowling alley. Alex Robertson received four new golf balls for a score of 113 but since he lost eight golf balls, it was still a pretty costly adventure. The serious part of this conventicle was a very interesting talk by Mrs. Sherlie Smoot, owner of Petroline Air Survey, on the historical background and present methods of pipeline patrol by airplane in the San Joaquin Valley and other areas. She was presented by that old lothario, C. D. Ball, and besides elucidating very ably on her subject, she added a touch of refinement to the gathering that was quite becoming. Following this highly educational interlude, members and guests assaulted each other with straights and flushes until the early morning hours.

Ed Bedford Retires

Edwin M. Bedford, manager of Western Gulf Oil Company's land department, retired on November 1, after more than 34 years with the Gulf organization. He was born in Kentucky and remained there long enough to complete his grade school education and attend Center College in Danville. His duties with Gulf have been entirely in the various phases of land acquisition, and a considerable portion of his early service was devoted to scouting in the California area. Here he was active in the leasing and assembling of drilling blocks that date back to the location of the Company's first California wildcat. Although Ed goes into retirement, the Bedford name

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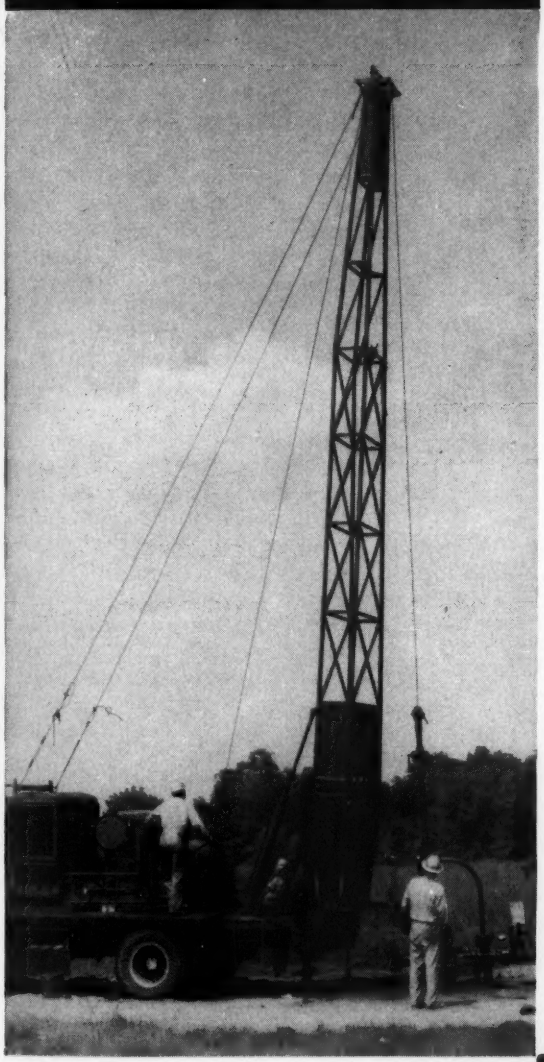

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R. O. Boykin, CNGA Awards Committee Chairman, presents Meritorious Service Award to E. Vernon Frost.

still occupies an elevated place in the petroleum industry. His brother, Henry D. Bedford, is manager of exploration for Gulf in the Denver Division. Another brother, Charles F. Bedford, is vice president and director in charge of production for Pan American Petroleum at Tulsa, Okla., and a son, Bill, just recently embarked on his business career as landman for Richfield Oil Company. His older son, Ed, Jr., is a teacher at Avenal High School, so to all intents and purposes he is in the oil business too.

Spare Time Occupation

Ed plans to occupy his time as a land consultant and real estate advisor and to do some traveling with his ladylove, Helen, but he contends vigorously that nothing under the sun is going to interfere with his golf. He plays at Riviera Country Club and has visited parts of the golf course "never trodden by the hand of man." We understand that he proposes to finance this pretentious program by increasing his gin rummy play and there is no doubt that in this species of speculative enterprise his facility in the art of drawing and pegging has brought him recognition as a sharpie. He is a member of the Oil Club, the organization that fathered the Petroleum Club of Los Angeles, and is a charter member of the latter. He also belongs to the Los Angeles Athletic Club, the Petroleum Production Pioneers, American Association of Petroleum Geologists, and is a member, at least by marriage, of the St. Andrews Society, to which he and Helen have on many occasions been generous hosts over the years.

Natural Gas Men Meet

The CNGA Fall meeting at the Huntington-Sheraton Hotel in Pasadena was as usual a powwow of major consequence. Some 700 eager natural gas and gasoline devotees showed up for the affair and were well rewarded for their curiosity. One of the top features of the gathering was a symposium on, and exhibition of, computers, showing their application in process work. That word "symposium" used commonly in connection with serious conferences is rather amusing. It comes from the Greek *syn,* "with," and *posis,* "drinking." However, as we have always contended, open confession is good for the soul.

Electronic Brains

This computer discussion was moderated by the well known consultant, Ira Bechtold, a long time member of the Association, and in the arena with their instruments were such gladiators as Bendix Computer Division, Consolidated Electrodynamics Corp., Electronic Associates, Electro-Data Division, Burroughs Corp., International Business Machines Corp., Royal McBee Corp., and Thompson-Ramo-Woolridge Products, Inc. Here was probably the greatest consortium of mechanical and electronic brains ever assembled west of Santa Fe Springs. It so impressed a nearby bridge contest, involving a group of Pasadena ladies, that they are planning to buy one so that the machine will do the playing while they devote themselves more fully to the spreading of intimate local news.

Forum Discussions

The two-day session of forums were devised and directed by Hilton Lacy, Honolulu Oil Corporation, and they were an outstanding success. Individual forum leaders were Don Johns, Standard of Cal; K. G. Pearce, Tennessee Transmission Co., Tulsa; B. C. Buck, Petrocon Engineering Co., and Warren Kane, Clark Brothers. On the opening day Dr. Joseph Manildi (wonder if he is related to Jack) of Thompson-Ramo-Woolridge Products advised the so-called management group on the diverse uses of computers. At this exposition were such notables as Val Cassaday, president of Lomita Gasoline Co.; Ronnie Heath, vice president of Signal Oil & Gas Co.; J. B. "Red" Taylor, natural gas chieftain of the same; H. J. Maxwell, CNGA prexy, and manager of Standard's Natural Gas & Gasoline department; Ted Zajac, manager of natural gas operations for Shell; Fred Hartley, Union's research chief; Kenny Vaughan, in charge of Union's hightest hydrocarbons; J. A. Smith, Texas Company higher-up; R. O. "Big Boy" Boykin, from Monterey; Leonard Andrews, the Petrolane veep; and many others to whom our apologies for failing to mention them.

Exhibits

Vern Frost, president of Frost Engineering Service Co., received the 1958 CNGA award for meritorious service, and it couldn't have happened to a nicer or more deserving guy. Vern has been a real dynamo in the organization for a decade more or less and during the past three years has been especially active in a multitude of ways. Certificates of merit were also presented to five members who have been busy men in the organization for over 20 years. They were F. E. "Brad" Bradley, Chanslor Western O & D; Guy Corfield, Southern California Gas Co.; Don Johns, Standard of Cal.; L. V. Leonard, Shell Oil Company; and L. M. Windle, Richfield Oil Corporation.

With R. C. Gentry in the chair, the General Session, at which over 600 were present, heard Dr. Joseph

Kaplan, chairman of the U. S. Geophysical Year Committee, give his first address since returning from Moscow. Tyler Macdonald, the Hixson & Jorgensen, advertising whiz, literally laid the boys in the aisle with his uninhibited flow of easy English. And W. W. Jacobs, vice president of Pacific Lighting & Gas Supply Company, did a nice diplomatic job of handling a theoretical merger between natural gas and fuel oil.

Among Those Present

A cocktail hour was generously hosted by the supply and manufacturing group under the chairmanship of J. P. Wilson of Daniel Orifice Fitting Company. Among the mid-continent reps who joined in the festivities were R. T. Tennison of Shell Oil Company, NGAA (that's Natural Gas Association of America); Bill Lowe, executive secretary of the same; A. C. Sweeney, Tulsa; J. D. Glidden, O. L. Olsen Company; Tom LaRock, El Paso Natural Gas Co.; Ray Garrique, Tennessee Gas Transmission; Ray Braley, Goliad Corp.; K. C. Loomis, Blaine & Co.; A. L. Vaughan, Northern Natural Gas Company; J. G. Burnham, Stearns-Rogers Mfg. Co.; A. K. Apitz, Dick Jenkins and Geo. Probet, all of Clark Bros.; Harry Fiske, Ingersoll-Rand; Ted Legatski, Phillips Petroleum (a Hanlon Award winner); and Albert Taylor, Amerada Petroleum Co.

The Boardwalk

Concluding this account we must not forget the quintette of lovelies who had the delegates coming back to register over and over again. They were Carolyn Ronnie of Holmes & Narver; Maxine Pyle of Signal Oil & Gas Company; Eleanor Murphy of Union Oil Company; Ann Bryan of CNGA head office; and Eileen Frost of the Frost Enterprises. They looked like a group of contestants in the Miss America contest. And then, natch, scuttling about everywhere and tying all the loose ends together into a very delectable whole was that old master scuttlebouter and tyer-upper, Ed Millett, Jr. whose CNGA life has been a long term monotony of successes.

John Cody Retires

That young and vigorous looking retiree, John Cody, vice president in charge of drilling and production for Superior Oil Company, was the recent guest of honor at a gathering of his friends in the Petroleum Club of Los Angeles. The affair was hosted by the Pearl Mesta of the petroleum industry, Earl Daniels, the high elevation Hydriller, and a delightsome affair it was. Consciously or unconsciously, we don't know which, this was not only a retirement party but was also a birthday party for John. Among those who came to pay their respects we noted Tom Selser, the PPP and retired Oil Men's Club president; Ed Stearns, the Universal huntsman, also on the eve of retirement; Babe Doyle, the domino expert from Hydril; Bob Cook, the eminent Coalingan; J. O. "Mac" McFaddin, noted contract driller and duck hunter; Ed Vaile and Hector Hollis, his bodyguard from California Oil Tool Co. up Fillmore way; Spike Oliphant, the Hughes Tool ambassador, and D. D. Long, pioneer operator from the same; F. P. "Red" Gribbin of the Gribbin empire up in Bakersfield; and a sizable and substantial delegation from National Supply Company, including Jess McClendon, John Spalding, Jerry Evans, Lloyd Hill, Forrest Young, L. C. Warthan, and Bob Craig; Cliff Reese of the Reese Sales Company; and Cocky McCannon, the Baker Oil Tools Bakerstown rep. Also present were Bill Butler, the Union Oil Company production biggie and a sizable stash of Superior Oil Co. lads, among them John Nugent, Ray Corley, Ben Kunau, Ed Penphrase, Ed Palmer, Ray Brown, Milo Hall, Hal Johnson, D. W. Mitchell, Herschel Davis, Ralph Heer, Don Koch, Lou Rogers, Paul Lower, B. J. Reese, Ray Jensen and Bill Abbee. It was a nice gesture by Earl Daniels for a nice person, John Cody, and we're pleased no end to be one of the guests.

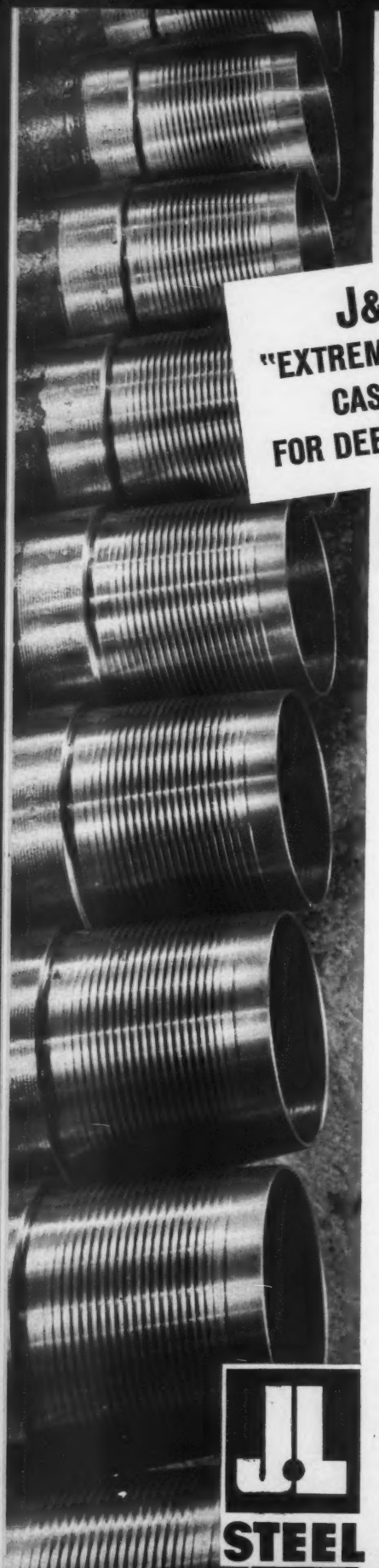
Jack Pike Entertains

We were privileged to attend a scrumptious cocktail party at the home of Mr. and Mrs. John Jacob "Jack" Pike a Saturday or two ago and besides having a lovely time among the hors d'oeuvres and elevating aquas, we ran into quite a concourse of important people. Jack, of course, is the president of Republic Supply Co. and he and his lovely lady have tossed this soiree annually for some years. This was our first time in but we are already in favor of its continuation. Among the guests, we remember exchanging brief chit chat with were the Bob Mincklers, Phil Magruders, Sam Bowlbys, Bob Fluors, Don Darnells, Duke Follansbees, Mac McFaddin (a stag), Bill Clines, Paul Whiteleys, Sam Grinsfelders, Les Smiths, Frank Lortschers, Ed Austins, Rollin Eckises, Ed Millairds, Warren Johnsons, Mal Morrises, George Trembley, Hudson Drakes, John Bells, Bob Bundys, Rex Hensels, Martin Newells, John Robinsons, Bob Kitzmillers and so many more we just wouldn't have the room to list them even if we had the memory to remember them. We had pleasant words also with P. M. (P for Pioneer) Pike, chairman of the board, and those popular lads Glenn Pitts and Bud Russell. It was all very lovely and friendly and hospitable, and we are grateful no end to have been included.

The Nineteeners Meet

Because of a recurrence of some old ticker trouble we were unable to attend the nineteeners semi-annual

Service Award of Merit recipients at CNGA Meeting (left to right) F. E. Bradley, C.W.O.D.; S. A. Bradfield accepting for Guy Corfield, Southern California Gas Company; Don Johns, Standard of California; L. V. Leonard, Shell Oil Company; and L. M. Windle, Richfield Oil Corporation.



J&L "EXTREME LINE" CASING FOR DEEP WELLS

High strength J&L Extreme Line casing was used as bottom-hole liner in this Shell Oil well in Louisiana.

J&L Extreme Line Casing provides leak-resistant bottom-hole liner for Shell Oil well

Over 1500 feet of 7-inch J&L Extreme Line casing were used as bottom-hole liner between 10,788 and 12,288 feet in this Shell Oil well in the Humphreys field near Gibson, Louisiana. "Extreme Line casing was used for its increased clearance and high leak resistance," said Shell Oil drilling superintendent.

J&L Extreme Line casing, produced under license from The National Supply Company, offers these important advantages:

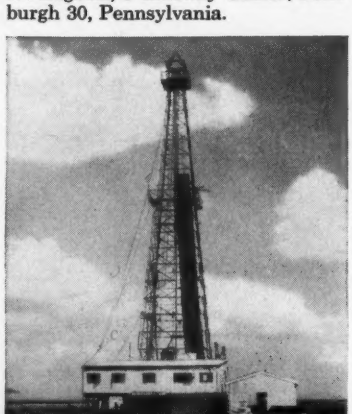
HIGH JOINT STRENGTH. Modified Acme-type threads, with a steep flank angle, assure strong interlock. Integral joint eliminates coupling.

POSITIVE LEAK RESISTANCE. Accurately machined metal-to-metal surfaces provide a positive seal.

INCREASED CLEARANCE. Reduced outside diameter of joints provides necessary clearance in a tight hole.

HIGH RUNNING SPEED. Running rates are up to 50% faster. Broad, flat-crested threads guide pin end quickly into engagement without cross-threading. Joints are made up with two to four jerks after spinning.

Investigate the unique features of J&L's Extreme Line casing, available in J-55, N-80 and P-110 grades. Ask your J&L distributor or write to Jones & Laughlin, 3 Gateway Center, Pittsburgh 30, Pennsylvania.



This L. D. Riggs No. A-2 well was drilled to 12,300 feet with a large steam drilling rig. 1500 feet of 7-inch 29# P-110 Extreme Line casing was used. Shell also used 2987 feet of 13⅜-inch and 7089 feet of 9⅝-inch N-80 J&L casing in this well.

J&L STEEL

Jones & Laughlin Steel Corporation

PITTSBURGH, PENNSYLVANIA

Calcutta at Tamarisk but by all accounts it was quite up to standard. Another contingent of high brass flew in from New York with Jack O'Brien, genial vice president of Johns Manville Company, navigating the plane all the way to the Royal Palms Hotel and picking up occasional strays enroute. With him he brought Howard Bratches, director of the Hensel Enterprises and manager of purchases for Shell Oil Company, New York; Ed Wilkinson, an old Annapolis grad, retired from the Navy and now attached to Johns Manville's insulation department; Joe Holmes, president of National Aluminate Company, Chicago, who took our usual place as roommate to Len Price, the brush-topped proprietor of Cal-Air Products; Dr. Dave Braithwaite, brain truster for the National Aluminate Company who refuses to play customer gin with his boss; Henry McAdams, Jones & Laughlin Supply Corp's gift to New York, a Notre Dame alumnus, out-of-town 19er, and a nasty with a niblick; Joe Taylor, retired Socony-Mobil purchasing executive, No. 1 honorary nineteener, and the organizer of the annual Western pilgrimage; Bill Beck, his Socony successor as manager of purchases, former Big Shot of the Nineteeners, and wonderful people by every measure; Frank Shlemmer, the Pacific Valves rep, best dressed man in New Amsterdam; Hal Detrick the tireless A. O. Smith veep, who on the side models shorts for some Wisconsin haberdasher; Paul Huggins, first president of the Petroleum Club of Los Angeles, and retired Gulf Oil Co. exec. about to associate himself with the Rumley Transportation Company in Houston; and Al Zwerneman, president of Atlas Pipe, Inc., Houston, used to be just independent now an independent producer.

Others Present

Also taking part in the whingding were Jud Sherrill who commutes between Scarsdale and Pebble Beach; Joe Hacker, vice president of the Ladish Co. from Cudahy who owns the nicest half of Wisconsin. (He and Hal Detrick gave a cocktail party for the Westerners which was much appreciated and greatly enjoyed); Russ Metzger, sales manager of Chicago Fuel & Iron Corp. Denver, whose favorite golf number is nine; Gib Myers, the Myers Drum Corp prexy, who became famous manufacturing drums for Gene Krupa; Lee Emerson, Kaiser Steel Co. sales chief, known as the Oakland smoothie, one of our favorite people; John Huggins, Macco Corp manager in Bakerstown, a block off the old chip; and that master narrator of sub-rosa folklore, Ed Steele, Taylor Forge & Pipe Works rep from Baghdad by the Bay.

The Strolling Players

One of the big events in this amazing succession of events was a play or something closely resembling a play, staged by that astute A. O. Smith impresario, Al Ziegfeld Dragge. The episode depicted was a typical nineteener directors' meeting and we understand that the Dragge Players have been invited to put it on again for the inmates of a local institution for neuro-ceramics. In fairness to the inmates, it should be stated that the invitation was extended without their knowledge. This whole thing was really the prelude to a surprise for Lev and Hope Sacre. Lev has been the secretary of Nineteeners since it was organized over 25 years ago and during that time he has never missed a meeting. With Charlie Perkins leading the movement, therefore, the members decided to reward this constancy, so at the Tamarisk meeting they presented the Sacres an all-expense paid trip to Honolulu, with accommodations at the Hawaiian Village, and a lovely set of airplane luggage to carry their belongings. Lev was so surprised you could have knocked him over with a Nash Rambler. Hope on the other hand, had known all about it for a couple of weeks, and she was probably the most relieved woman in town when the deed was finally consummated. So with the rest of their friends we are wishing Lev and Hope all the best on their surprise vacation.

The Late News

By way of last minute round-up, we were embarrassed to have to miss the Desk & Derrick reception honoring Cy Rubel and Larry Seaman. We had long known that Cy is one of the best expositors—name your subject—in these parts, but we were pleased to hear from members all over the place that Larry Seaman did a really outstanding job. Larry is a modest and altogether decent chap who also seems to have plenty on the ball. No wonder he is president of Intex! Graham Moody's annual report, entitled "Dedicated Exploration" came a short time ago. He calls it his "swan song" and if you are a geologist you would enjoy reading it, particularly the part about good ones being lost in the upper echelons of management. It was sad to learn of the death of Ed Lloyd, Examiner oil editor, after a prolonged illness; and Sam Furman, former Ohio Oil Co. executive, who passed away about the end of October; saludos to everybody from Guy Edwards in the Fiji Islands; also greetings from Harry Stolz, datelined Edinburgh, Scotland, whence he was going to London, Paris, Brussels, and actually arrived here before his card. Pretty fast these admirals! Another from Clayton and Eleanor Rose in Paris, after a five day visit in England. They are on their way around the world. A recent visitor here, guested by Bob Eiche, whose interests he represents in Honolulu, was Walter Grace of Grace Brothers. Happy returns to Tom Sherman, Earl Daniels, and Ed Bartosh, all one year older! The Directors Holiday Ball of the Petroleum Club of Los Angeles will be held in the Pacific Ball Room of the Statler on December 12. And the annual meeting of Petroleum Production Pioneers will take place at Rodger Young Auditorium on December 6. Which is all for now. Cheerio!

New Steam Plant at Tidewater Refinery

A new steam plant, able to burn any one of three types of fuel or all three simultaneously, has been completed at Tidewater Oil Company's Avon Refinery. Designed to make 500,000 pounds per hour of 1,250 psi steam at 950° F., the novelly-fueled plant will add to the steam already available at the 114,000 b/d refinery. Using up to 500 tons daily of a new commercial fuel, fluid coke, as well as able to use fuel oil or refinery gas, the new plant will be supplied fluid coke from the world's largest fluid coking unit, located on the refinery grounds.

B and W

Scratchers and Centralizers for a Good Cement Job

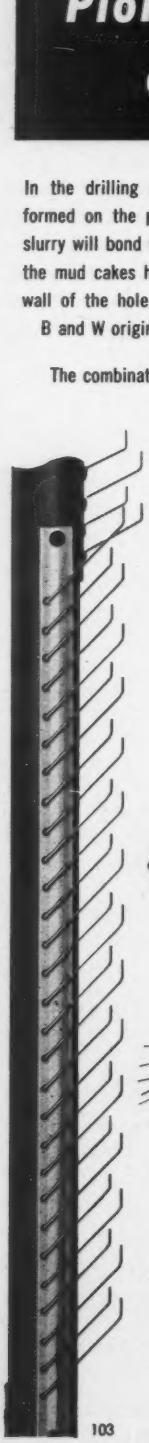
Pioneers in the Improvement of Primary Cementing

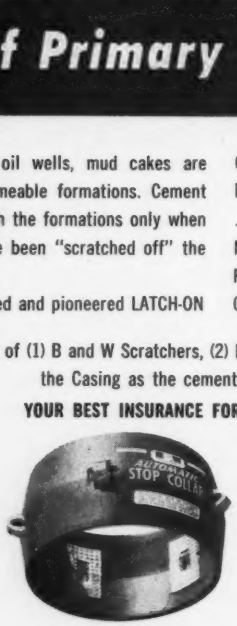
In the drilling of oil wells, mud cakes are formed on the permeable formations. Cement slurry will bond with the formations only when the mud cakes have been "scratched off" the wall of the hole.

B and W originated and pioneered LATCH-ON CENTRALIZERS for easy installation . . . the KON-KAVE Bow for greater centering strength . . . the WALL CLEANING GUIDE . . . the MULTI-FLEX and HINGED NU-COIL SCRATCHERS FOR POSITIVE MUD REMOVAL AND COMPLETE CEMENT FILL.

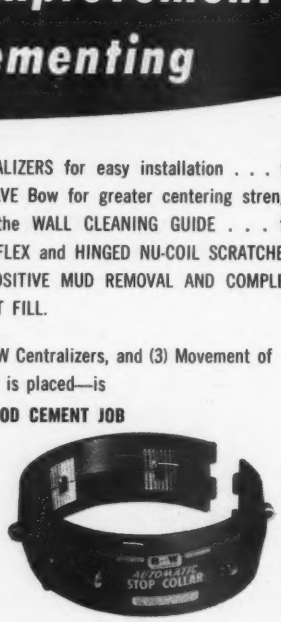
The combination of (1) B and W Scratchers, (2) B and W Centralizers, and (3) Movement of the Casing as the cement slurry is placed—is

YOUR BEST INSURANCE FOR A GOOD CEMENT JOB

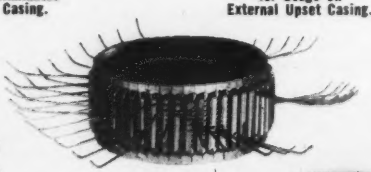




B and W Solid Automatic Stop Collar Eliminates Welding on Casing.

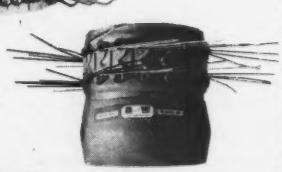


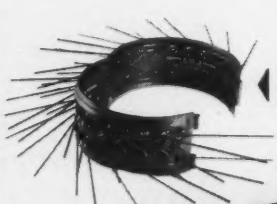
B and W Hinged Automatic Stop Collar for Usage on External Upset Casing.



B and W Rotating Scratcher—Multi-Flex Type. Sturdiest for Cementing Casing and Open Hole Plugs.

B and W Wall Cleaning Guide. The Original Scratcher.

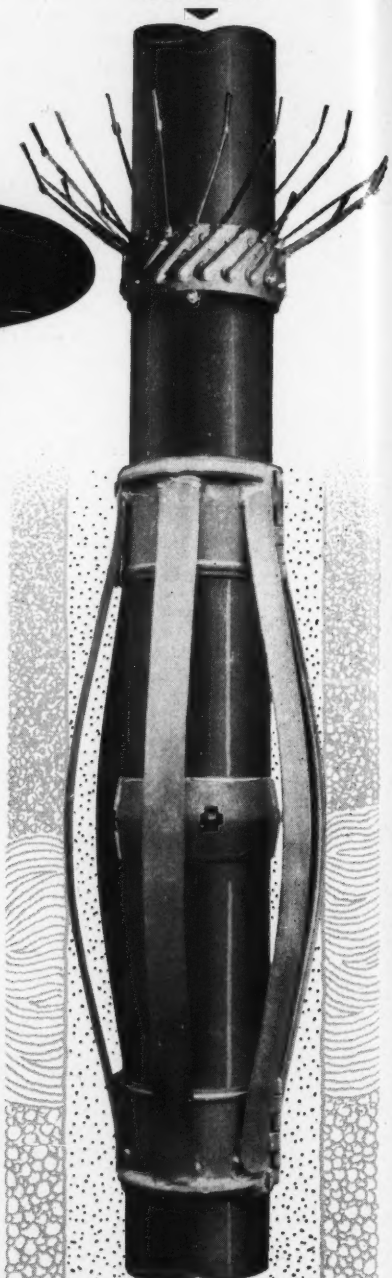




B and W Hinged-Nu-Coil Scratcher. Most Economical — Easiest to Install.

B and W Combination Unit. No Welding—Maximum Scratcher Travel.

B and W Multi-Flex Scratcher. Easiest on the Hole.



B and W Latch-On Centralizer. Strongest Kon-Kave Bows.

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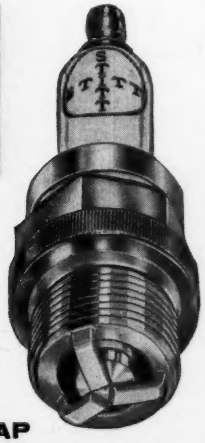
WEST COAST — 19706 S. Normandie Ave., Torrance, California, Phone FAculty 1-2463

Shell to Supply Flying Tiger Line

Shell Oil Company has signed a new $15,000,000 aviation gasoline contract with the Flying Tiger Line, the world's largest freight and contract system. The contract calls for delivery of aviation fuel for Flying Tiger's fleet of fourteen Super Constellations at bases throughout the world, according to R. D. Stetson, Shell's Los Angeles Division Manager.

The Flying Tiger Line recently announced the expansion of its military air lift and domestic air cargo services. The Tigers now fly an average of more than a trip a day between Travis Air Force Base in Northern California and the Far East, and make three daily non-stop transcontinental all-cargo flights between Los Angeles and New York. Shell reports that a Flying Tiger cargo plane consumes nearly 500 gallons of aviation gasoline each hour—more than the average motorist uses in six months.

STITT



new triple ignitors

... HOLD GAP SETTING LONGER

Field Tests PROVE that STITT oil-field-engineered New Triple Ignitors hold gap settings longer — magneto points last longer — cut "down time," to give long-life performance. Stitts save real dollars per engine per year. To get better service from your engines—regardless of make—send for FREE Pocket Catalog and Application Chart that specifies the RIGHT plug for all your engines, and Field Test Reports.

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STITT IGNITION CO.

"Dept. CO" Columbus, Ohio

STITT MAKES HEAVY DUTY INDUSTRIAL SPARK PLUGS

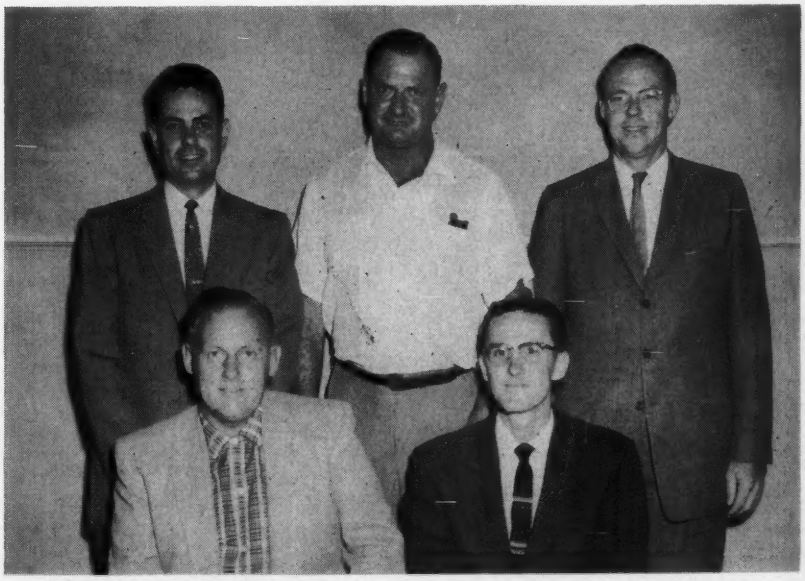
Fall Meeting—L.A. Basin Chapter—API

The first fall meeting of Los Angeles Basin Chapter of the American Petroleum Institute was held at Shell Recreation Hall in Long Beach September 16, 1958. The program consisted of a panel of three well qualified and interesting speakers presenting talks on power tools and special equipment for handling tubular goods and sucker rods.

Hank Campbell of Oilwell Service Company spoke on the methods of operation and the advantages of using the Power Operated Tubing Spider. He pointed out that the operations were better, faster, and much safer than the hand operated slips method. Both air and hydraulic equipment are available, but Mr. Campbell stated that the air operated spider is more simple and requires less auxiliary equipment. Slides were shown illustrating the various steps in the operation of the spider.

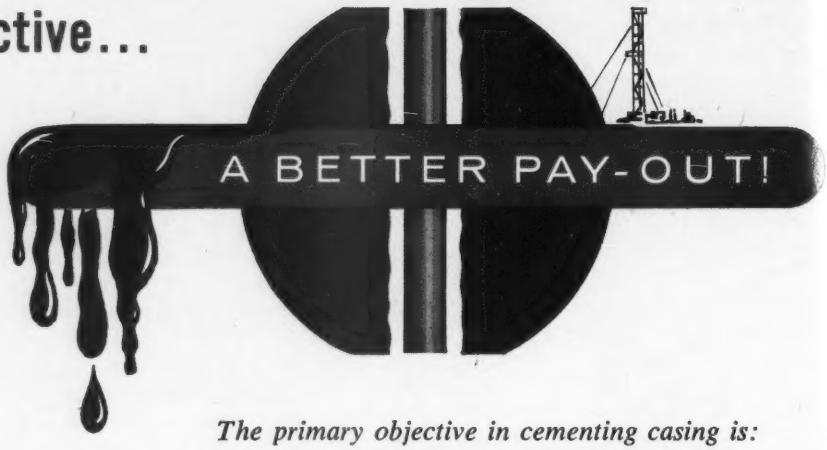
Al Cooper of the Standard Oil Company of California, Western Operations presented a talk on the various methods of handling and hanging sucker rods. He pointed out the differences and advantages of the three basic methods of hanging rods; standard hangers of the grip type, air rod transfer method is the fastest, with rod standing in second place, and the standard rod hangers in third place. However, there are other factors to consider, i.e., safety, weight and economy. With the gross weight of the pulling units going up constantly it is important that additional weight be considered carefully. When all three factors are considered, the rod standing method seems to give the best all-around combination. Slides were shown illustrating the various methods.

Jim Keeley of Hillman-Kelley presented a movie and a discussion of the Hillman-Kelley power operated casing tongs. He discussed the background and development of the field torque and test measurements by major oil companies and manufacturers to determine what the proper make up torque should be on casing joints. The power tongs offer a simple fast method in making up casing joints to be optimum torque in spite of joint tolerances that make any standard system, such as "last scratch showing," impractical. The operator, using a torque gauge on the tongs, can determine defective joints by the amount of make up resulting from application of a certain torque. If the amount of make up varies beyond accepted standard, this joint may be removed from the string and many joint failures may be prevented.



CHAIRMEN AND GUEST SPEAKERS AT LOS ANGELES BASIN CHAPTER, A.P.I.
Left to right (back row) Harold Nissen, Signal Oil and Gas Company, Chapter Chairman; Jim Keeley, Hillman-Kelley, guest speaker; Paul Hamann, E. B. Hall and Co., Program Chairman; (front row) Hank Campbell, Oilwell Service Company, guest speaker; Al Cooper, Standard Oil Company of California, guest speaker.

Primary Objective...



The primary objective in cementing casing is:

- **To protect and conserve all possible productive zones**
- **To protect against corrosion of casing**

Casing must be adequately surrounded with cement for effective bond to casing and formation. Many factors enter into the desired "end-result", requires proper planning and preparation for a successful primary cementing operation.

Facts that must be considered before primary cementing begins are:

- **Selection and placement of the correct tools**
- **Selection and location of surface connections that affect cementing**
- **Materials for cement slurry must be carefully decided upon**
- **Proper mixing units, accessory equipment and techniques must be chosen**

Only qualified and experienced personnel with the "know-how" and "know-why" can perform successful cementing jobs.

Halliburton's background of 34 years of oil well cementing experience... of more than 2,000,000 jobs performed, make Halliburton the world's most experienced oil well cementing organization... specify Halliburton for the best Primary Cementing.

HALLIBURTON PRODUCTS ..."FIRST" FOR BETTER PRODUCTION

AUTOMATIC FILL-UP FLOATING EQUIPMENT

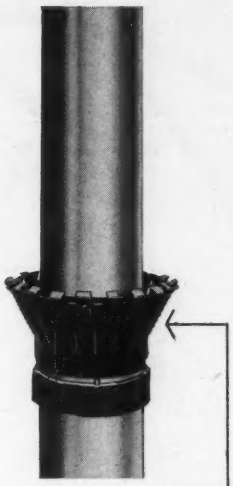
Double-action Float Collar and Float Shoe have orifices that "meter" the flow of drilling fluids while running casing. Saves running-in time of casing, minimizes damaging pressure surges, converts to Super Seal floating when tripped with moderate increase of circulating pressure and volume using conventional rig pump. Guides your casing easily to bottom because of liberal radius provided by more durable nose guide of high strength concrete.

AUTOMATIC FILL-UP FLOAT COLLAR

AUTOMATIC FILL-UP FLOAT SHOE

HALLIBURTON RECIPO WALL CLEANERS

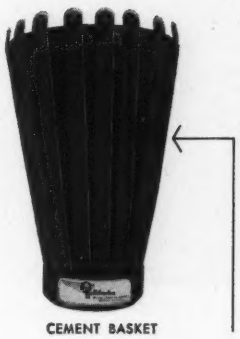
Newest concept of reciprocating type cleaner to remove undesirable filter and mud cake from bore hole giving better bonding of cement to formation and casing. Wide fluid passage areas reduce circulating pressure and bridging action of filter cake cuttings with or without lost circulation materials ... thoroughly cleans wall of hole due to increased velocity. Minimizes bore hole or filter cake damage. Breaks up channeling action through drilling fluid. Greater area cleaned with wide and tough rubber fingers, plus easy and fast latching to casing with hinged design.



RECIPO WALL CLEANER

HALLIBURTON CEMENT BASKET

Basket acts as support after cement is pumped and "bridges" heavy cement columns until initial set. Protects weak formations and retains cement by reducing slurry loss and breakdowns of porous formations. Successful performance when run outside casing or liner above defective formations.



CEMENT BASKET

HALLIBURTON VISE-LOK LIMIT CLAMP

Superior lock-on power handles loads up to 20,000 lbs. This non-weld limiting device sets itself tighter to casing as more load is exerted against it. Greater protection from vertical movement is achieved by special file hard gripping disc slips inside hinged steel ring which are forced against casing by taper pins from behind. Hinged for easy installation, the Vise-Lok eliminates welding of lugs or limiting devices.

VISE-LOK LIMIT CLAMP

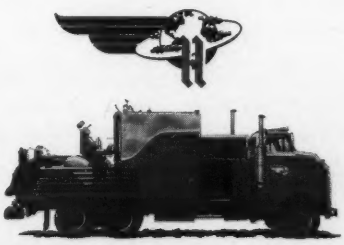
LATEX CEMENT

A low fluid loss cement for squeeze cementing or "tailing-in" on primary cementing. Perforating properties exceptional, with minimum shattering as compared to portland cement. Higher resistance to mud contamination, acid and corrosive fluids with added resiliency and bonding qualities to cement.

HALLIBURTON

CEMENTING SERVICES

HALLIBURTON OIL WELL CEMENTING COMPANY • DUNCAN, OKLAHOMA



"WORLD-WIDE LEADER IN OIL WELL CEMENTING—RESEARCH AND APPLICATION"

Personalities IN THE NEWS

M. W. "Cy" Reed

Halliburton Names Hemisphere Manager

M. W. "Cy" Reed has been promoted to foreign operations manager—western hemisphere for Halliburton Oil Well Cementing Co. Creation of the new supervisory post is announced by **Ralph R. Emery,** vice-president for foreign operations and export sales.

The new manager has been in charge of Halliburton's Canadian subsidiary since 1948 and had earlier spent seven years in foreign oil fields. Within a few weeks he plans to move from Calgary, Alberta to the company's Duncan, Okla. headquarters.

Halliburton now has subsidiary or branch operations in 11 western hemisphere countries other than the U. S. Some 50 locations are maintained in Argentina, Bolivia, Brazil, Canada, Colombia, Cuba, Mexico, Panama, Peru, Trinidad and Venezuela.

T. W. Koch, Chief Geologist of the Foreign Department of The Superior Oil Co. and **Leo van der Harst,** Senior Geologist with the same department, have left Superior to join **Earl B. Noble** and **Loyde H. Metzner** to form the consulting firm of E. B. Noble and Associates with headquarters at 643 South Flower Street, Los Angeles 17, Calif. This brings together a wide variety of experience in the fields of foreign and domestic exploration.

Dr. L. Reed Brantley, head of the department of chemistry at Occidental College, Los Angeles, Calif., has been named visiting scientist at Lehigh University through a Petroleum Research Fund award of the American Chemical Society. He will work with the chemistry staff at Lehigh during the coming year while he is on leave of absence from Occidental College.

Hughes Announces Changes In Key Sales Personnel

Reorganization of Hughes Tool sales personnel in line with the company's long-range objectives and program to improve its services to customers in its expanding domestic and foreign sales and field engineering operations is announced by **M. E. Montrose,** vice president—sales.

Park L. Myers has been made manager of United States and Canadian Sales, and **E. M. Connor** manager of Export Sales. Both are under **W. H. Siems,** general sales manager. Export sales activities have been divided into Western and Eastern Hemisphere territories, with **O. B. Latrobe,** New York, heading Western Hemisphere sales and **R. G. Roberts,** London, Eastern Hemisphere sales.

Leon Stinson moves to Houston as director of sales training. **J. R. Lesch** moves to Houston as manager—rock bit sales. **R. W. Lewis** becomes manager—tool joint sales.

Cornelius K. Ham, for several years district geologist for Wm. Ross Cabeen & Associates in the Los Angeles area, has been transferred to the Cabeen offices in Lima, Peru, where he will assist **Pat Herrera** and **Joe Roberts** in exploration work for Cerro de Pasco Petroleum Corporation.

Continental-Emsco Appointments

Continental - Emsco Company has announced the appointment of **Max M. Marstrand** to the position of Division Merchandise Manager with headquarters in Tulsa, Oklahoma.

Harry Hobbs, Jr. will fill the same position at the oil field supply and manufacturing company's Houston division office.

Also announced is that **Jack N. Smith** will be manager of Continental-Emsco's sales outlet in Corpus Christi, Texas. **R. A. Broussard** has been appointed store manager at Harvey, Louisiana. **George C. McCay** will manage Continental-Emsco's oil field supply store at Red Deer, Alberta, Canada.

D+B Specialist **Fredrick D. Church** has been assigned to the Hobbs, New Mexico, area and **Robert G. Hamilton** will headquarter in Tatum, New Mexico, as D+B Specialist.

Harry Hobbs, Jr. Max M. Marstrand

On the loading docks of your **supply store** gather the customer, supply house man, Baash-Ross sales engineer and the superior equipment that have aided the oil man in developing today's efficient drilling and production methods. An integral part of the American oil field system, your **supply store** strives to have conveniently at hand every item needed by any oil field worker for his job.

Working with your **supply store** are well trained, capable representatives of recognized manufacturers of quality oil tools such as Baash-Ross. These representatives add specialized local service on their particular equipment to the convenience of local stocking by the **supply store.** Together they provide you with the best equipment and service available to any industry in the world today.

So when you need slips, rotary bushings, safety clamps, spiders or other drilling and production equipment, call your nearby Baash-Ross representative and meet him at your convenient **supply store** for complete stocks and superior service.

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FOREIGN OFFICES:
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BAASH-ROSS JOY

Personalities Continued

H. B. Hurley O. A. Dunnahoo

H. B. (Pat) Hurley, for many years an executive with Continental Oil Company and more recently senior vice president of Republic Natural Gas Company in Dallas, has joined Welex, Inc., as assistant to the president. **Ray O. Shaffer,** president of the world-wide oil well service company, made the announcement at the company's general headquarters in Ft. Worth. Hurley, whose whole working lifetime has been spent in the oil industry, will headquarter in Houston.

Welex, originators of the jet process of perforating oil wells, offers complete wireline service to the oil industry, including perforating and resistivity, radioactivity and auxiliary logging. Welex has operations in every major oil center in the United States and subsidiaries in Canada, Venezuela and Peru.

Owens A. Dunnahoo has been appointed vice president and treasurer of the Wilshire Oil Company of California, as announced by **E. G. Coopman,** company president. In a newly created position Dunnahoo will, in addition to his duties as treasurer, be responsible for the supervision of all personnel, purchasing and credit functions of the company and will coordinate all company policies between departments.

W. W. Niceley, formerly Chief Accountant has been named to succeed Dunnahoo as Controller and will assume all accounting responsibilities for the company.

Under a reorganization plan just announced by Bell & Burden, Inc., one of the oldest contract drilling organizations on the west coast, the following gentlemen have been elected to executive office, effective as of October 14, 1958: **Joseph L. Burden,** president; **H. A. Buchanan,** executive vice president and secretary; **John Kerfoot,** vice president and treasurer; and **D. J. Murray,** assistant secretary. These four gentlemen will also constitute the Board of Directors.

Since the death of **A. H. "Ham" Bell,** former president of the company, early in the year, Bell & Burden has been operating uninterruptedly without nominal change in its executive structure excepting that Joseph L. Burden has temporarily exercised the presidential function. Headquarters of Bell & Burden are in the National Oil Building, 609 Grand Avenue, Los Angeles, and under the newly crystallized staff set-up, the firm will continue to serve western oil operators with the most modern equipment and the technological skills that are only acquired by long experience.

C. H. Wager has been named to the newly-created post of general traffic manager of Shell Oil Company. He will be responsible for the company's coast-to-coast traffic department functions, which includes Shell Chemical Corporation traffic activities. **D. B. Hodges,** vice president in charge of transportation and supplies, said the consolidation of traffic activities under a single head office management is in keeping with the changing and closer interrelationship between West Coast and East of the Rockies marketing and supplies activities.

Direct supervision of traffic activities will continue to be divided between a traffic department in New York and one on the West Coast, Hodges said. Managers of both districts will report to Wager. **W. H. Adams** continues as manager of the traffic department serving the West Coast.

John E. Ford, Jr., Chairman of the Board of U. S. Oil & Refining Co., Tacoma, Washington, announces the election of **J. B. Adams,** refinery manager, as Vice-President and manager in charge of manufacturing.

G. S. Peterson, Chief Engineer, was appointed Superintendent of Operations. **F. W. Brugman,** Assistant Engineer, was named Chief Engineer. **Dr. E. E. Lyder** continues as President of the Tacoma refinery firm which has been in operation about a year and is the third largest refinery in Washington State.

The Golden Bear Oil Company has recently elevated **Robert L. Feldman** to the position of Executive Vice President. Mr. Feldman has been with the company since 1946, and will continue in his present position as sales manager.

William A. Adent, Consulting Geologist, has opened offices at 456 Haberfelde Building, Bakersfield, California. His work is principally exploration survey for gas in the San Joaquin and Sacramento Valleys.

Gene Reid, well known Bakersfield drilling contractor, after many months of inactivity, has re-entered the contracting field and is ready to do business. In October of 1957, Mr. Reid announced that the company would be liquidated. However, due to depressed conditions, all of the drilling rigs were not sold and the Gene Reid Drilling, Inc., has five complete diesel drilling rigs ready for action.

Ross M. Phillips, consulting Geologist and Petroleum Engineer, announces the removal of his California office to Suite 2, Masters Building, 436 Heliotrope Avenue, Corona del Mar, Calif.

In Memoriam

JULIUS FRIED

Julius Fried, pioneer oil man of California, died October 9, 1958 after a prolonged illness at the age of 86. Born in Healdsburg, California, in 1910 he was responsible for the Lakeview gusher in the Midway-Sunset field of which he owned five eighths of the property. His holdings in this and other properties he sold to General Petroleum Corporation in 1948. Later, he and two others formed the Tejon Hills Company which was sold to Signal Oil Company in 1951.

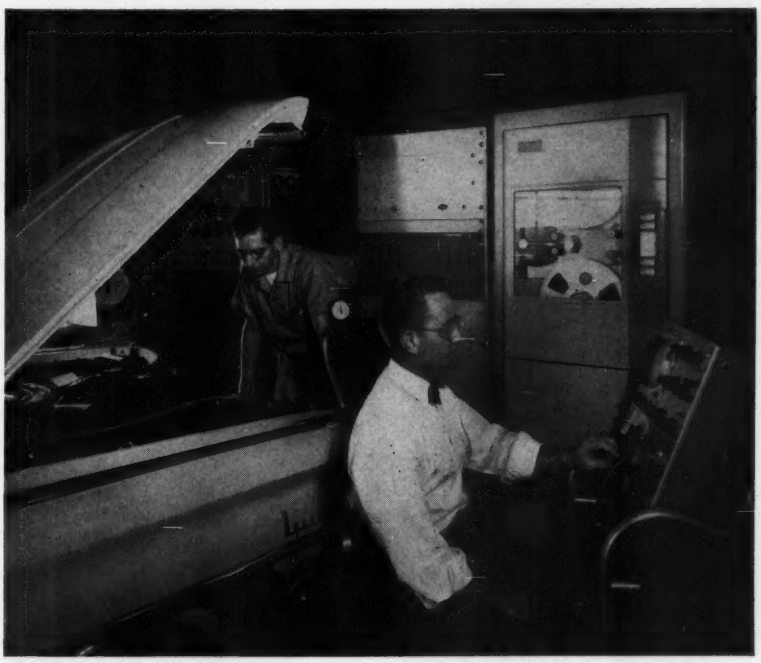
DU PONT *Petroleum Chemicals* NEWS

Number 92 in a Series of Bulletins for the Petroleum Industry

NOVEMBER 1938

Progress report on "rumble" and "thud" studies

Five years ago, researchers in the Du Pont Petroleum Laboratory isolated a new phenomenon in the performance of high-compression ratio engines. They called it "rumble."



THE CHASSIS DYNAMOMETER setup at the Du Pont Petroleum Laboratory is helpful to Du Pont engineers in pinpointing the causes and effects of rumble and thud in high-compression ratio engines.

"Rumble," a low-pitched noise produced in engines of about 9.5:1 or higher compression ratio, is usually noticeable on hills or during accelerations above 40 or 50 miles per hour and when the throttle is wide, or nearly wide, open. Laboratory tests show that it is associated with a high rate of pressure rise within the cylinders of such engines, plus the presence of combustion chamber deposits.

Now—"Thud"

Another low-pitched noise has been noted in tests at the Du Pont Laboratory. It has been given the name "thud."

"Thud" takes place in the same types of high-compression ratio engines as "rumble," with one significant difference — it can occur in the absence of combustion chamber deposits.

FOA-2 makes costly tank cleaning unnecessary

Recently another case history of dollars saved through fuel oil improvement came to Du Pont: No. 6 residual fuel was being burned at a factory in upstate New York. This plant uses about 3 million gallons of fuel per year. It is first delivered to a 300,000-gallon storage tank and then transferred to a 17,000-gallon horizontal work tank.

Sludge build-up meant costly clean-outs

Sludge was playing havoc with the work tank, largely because the inlet and outlet connections were located at its head end, and sludge built up rapidly at the far end. When it reached a depth of several feet, it threatened to interfere with suction pipe operation. So every few months it was necessary to open the tank, and send a work crew inside to remove the accumulation manually. A "messy," time-consuming and costly job.

How FOA-2 solved the problem

Last February about 10-15 gallons of Du Pont Fuel Oil Additive No. 2 was poured into this tank, in the hope that it would stabilize the fuel and reduce sludging, thus extending the time between clean-outs. After the fuel in the tank had been consumed in the normal manner, it was quickly discovered that virtually no sludge remained. The additive had solubilized and dispersed the sludge, and stabilized the fuel. Therefore the plant promptly adopted a program of treating its fuel oil with FOA-2 to eliminate the costly clean-out operation.

If you or your customers are experiencing fuel oil sludging problems, let your Du Pont representative work out a solution for you.

ADVERTISEMENT—Prepared for the Petroleum Chemicals Division of E. I. du Pont de Nemours & Company (Inc.)

OVER

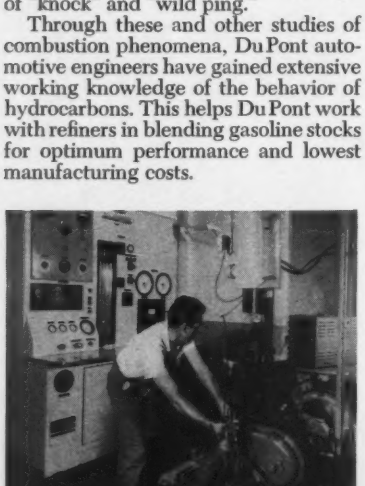
DU PONT *Petroleum Chemicals* NEWS

CONTINUED

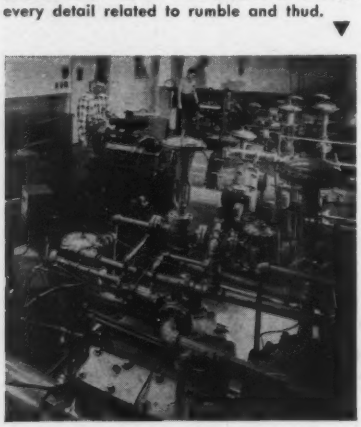
"rumble and thud"

Investigations of both rumble and thud are going on today, in engines in the Du Pont Petroleum Laboratory. Gasoline technology stands to benefit importantly from these tests, as it has in the past from Du Pont investigations of "knock" and "wild ping."

Through these and other studies of combustion phenomena, Du Pont automotive engineers have gained extensive working knowledge of the behavior of hydrocarbons. This helps Du Pont work with refiners in blending gasoline stocks for optimum performance and lowest manufacturing costs.



▲ **LABORATORY,** as well as on-the-road and dynamometer engine tests, are employed by Du Pont scientists in their studies to uncover every detail related to rumble and thud. ▼



Details available to you

Numerous papers have been presented by Du Pont technologists on the subjects of rumble, thud, knock and ping. Your Du Pont Petroleum Chemicals representative will gladly get copies for you.

YOU OUGHT TO KNOW . . .

E. HEARN SIMPSON, Sales Manager of Du Pont's Petroleum Chemicals Division, joined the company in 1930 in the Fabrics and Finishes Department. Two years later he was transferred to the Organic Chemicals Department and for a number of years he was a salesman of products as diverse as industrial alcohol, anti-freeze and gasoline antioxidants.

Five years were devoted to sales of the latter, in both the Mid-Continent and Gulf Coast regions.

Hearn Simpson's career at Du Pont was interrupted for three years while he served as a naval officer on aircraft carriers in the Pacific theater of operations.

On his return to Du Pont in 1946, Mr. Simpson was made sales manager of alcohol and camphor. He was elevated to his present position in 1950.

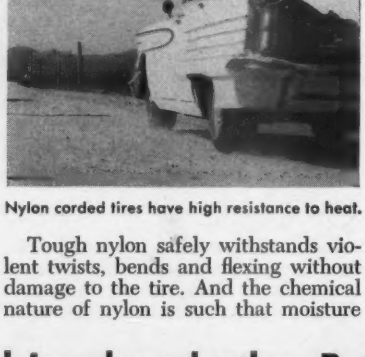
Mr. Simpson attended Colorado University and was graduated from the University of Denver with a Bachelor of Science degree.

Nylon cord tires a step toward highway safety

On today's turnpikes and thruways, four tire hazards are becoming increasingly serious. Tires with nylon cord are a long step toward eliminating them all.

Heat is the biggest threat. Sustained speeds of 60 or more miles per hour are not unusual on many of our superhighways. Nylon resists the effects of heat, reducing the chances of tire failure at these critical speeds.

The particular problem with heat is that it has a way of bringing out the worst in a tire, of finding and preying upon all the defects that may have come about through bruising, moisture and flex fatigue, the other three tire hazards.



Nylon corded tires have high resistance to heat.

Tough nylon safely withstands violent twists, bends and flexing without damage to the tire. And the chemical nature of nylon is such that moisture doesn't harm it.

As America's superhighway program moves forward, the demand for safe, reliable protection will result in the increased use of tires corded with nylon, another petrochemical product made possible by the cooperation of the petroleum and chemical industries.

SALES OFFICES

Chicago 3—8 So. Michigan Ave. . . . RAndolph 6-8630
Cleveland 15—101 Prospect Ave. . . . . MAin 1-3422
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Los Angeles 17—612 So. Flower St. . MAdison 4-1354
New York 20—45 Rockefeller Plaza . . . . . COlumbus 5-2342
Philadelphia 2—3 Penn Center Plaza . . LOcust 8-3531
Pittsburgh 22—1 Gateway Center . . . ATlantic 1-2933
San Francisco 4—111 Sutter St. . . . . EXbrook 2-1934
Seattle 3—4003 Aurora Ave. . . . . MElrose 2-6977
Tulsa 1—1811 So. Baltimore Ave. . . . . LUther 5-5578
In Canada—Du Pont Company of Canada (1956) Limited, Petroleum Chemicals, 85 Eglinton Ave. East, **Toronto 12**—Ontario . . . . . HUdson 1-6461
In Other Countries—Organic Chemicals Department, Export Division. 7447 Nemours Bldg., Wilmington 98, Del., PRospect 4-2962.

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. . . through Chemistry

Du Pont Tetraethyl Lead and other Petroleum Additives

OVER

ADVERTISEMENT—Prepared for the Petroleum Chemicals Division of E. I. du Pont de Nemours & Company (Inc.)

A-8064

Printed in U. S. A.

Single Stage Centrifugal Compressors

A new line of centrifugal compressors designed specifically for refinery and petrochemical applications, is now being offered by Clark Bros. Co., one of the Dresser Industries. Type OM units provide air service at low discharge pressures; Type OPB Series handles gas and air applications at higher discharge pressures. Sizes cover the 1200 to 80,000 cfm range with input horsepowers from 10 to 2500 bhp. Discharge pressures up to 900 psig can be readily handled in the lower capacity models.

Of ultra simple design, Clark single stage centrifugals are essentially constant pressure, variable volume machines. They can be used for blower service where inlet conditions are atmospheric; for exhauster service where inlet conditions are below atmospheric pressure; or for booster service where inlet conditions are above atmospheric pressure.

Features include: Heavy duty cases; overhung rotor construction; single shaft seal design; open or closed type impellers to meet various pressure and temperature requirements.

Bulletin 165 covering these compressors can be obtained from Clark Bros. Co., Olean, N. Y.

Tank Capacity Slide Rule Calculator

A handy, pocket-size slide rule calculator for determining capacity and size of storage tanks is now available from Hammond Iron Works, designers, fabricators and erectors of storage tanks and process vessels for the petroleum, chemical and petrochemical industries.

The new slide rule calculator furnishes information on tanks up to 100 ft. high and 300 ft. in diameter. Capacities are given in gallons, barrels and pounds of water. Additional information obtainable with the Hammond Calculator includes: decimal equivalents of a foot for all inch units and fractions; equivalent volumetric units; and steel plate weights for thicknesses from 3/16" to 1".

The Hammond Calculator can be obtained from Hammond Iron Works, Warren, Pennsylvania or 744 Broad Street, Newark, N. J.

Product for Locking Shoes and Collars

Baker Oil Tools, Inc., announces a new product, designated "Bakerlok," used for locking shoes and collars to prevent backing-off while drilling out. An additional advantage is prevention of damage to better grades of casing when joints are welded. Bakerlok is furnished in a kit consisting of the compound and an activator which are mixed together and applied to the pin thread of the joint, which is then made up and soon is firmly locked.

Torque tests have been made on 5½" casing joints welded with six, ¾" welds which brake in a torque range of from 17,000 to 20,000 foot-pounds. Clean joints locked with Bakerlok consistently broke out at substantially higher torque values, even under temperatures ranging from 50° F. to 400° F. Vibration tests, corrosion tests, and tests of the lubricating and sealing qualities all confirmed the effectiveness and all around superiority of Bakerlok.

Additional details are available from Baker Oil Tools, Inc., Box 2274, Terminal Annex, Los Angeles 54, California.

New Line of Plug Valves

The Hydril Company has just introduced a new line of non-lubricated type, full opening, round bore plug valves. Known as the Type K Valve, it is claimed to be an entirely new concept in valve design culminating many years of research in complex pressure control problems by company engineers.

The distinguishing feature claimed for the type K Valve is its ability to provide a positive and enduring bubble-tight seal under extremely severe operating conditions. Positive valve port sealing is accomplished by mechanically compressing a fully confined, gasket type Teflon packing ring tightly against the valve plug each time the valve is closed. This positive sealing action takes place automatically while the valve handwheel is being rotated to the fully closed position. The tightly compressed packing ring provides a bubble-tight seal against pressure from either direction.

The Teflon packing ring is a plastic material that has the ability, when tightly compressed, to seal scratches and abrasions that may be present either on its own surface or on the surface of the valve plug. The compressed packing ring will also seal over foreign particles should any become trapped between sealing surfaces of the valve when it is closed.

Catalog V-58, covering Hydril Type K Ball Plug Valves in detail, is available upon request. Write Hydril Company, 714 West Olympic Blvd., Los Angeles 15, California.

Sodium Coolant Control Device

The Ohio Injector Company has been awarded a contract by the Atomic Energy Commission for the development of a device for controlling the sodium coolant in fast breeder power reactors. Roger E. Bremer, executive vice president, said that the producer

of industrial valves will start immediately to design and construct a major test flow facility at its headquarters in Wadsworth, Ohio as an initial step in its research and development contract with the Atomic Energy Commission. AEC announced earlier at Washington that the Wadsworth company was the successful bidder for the development project.

The project, involving a wide scope of activities ranging from studies of materials suited to handling high-temperature sodium to building and testing prototypes, is expected to require upwards of one year in its initial development phase. Following finalization and acceptance by the Government agency, the device will become available to an estimated potential of 200 power reactor plants, the official said.

California Leasing Service

Stuart D. Shrimpton announces the formation of the California Leasing Service to serve the small users of oil well pumping engines in California. Realizing that the economies to be obtained in the leasing of engines have been mainly to the large operator he believes these same economies can be made available to the small operator.

The engine leasing service includes installation and all maintenance costs. Field servicing equipment and personnel are on around-the-clock call to provide maximum continuity of operation. Mr. Shrimpton states a supply of engines specially engineered and equipped for oil field service is on hand.

Leasing rate schedules can be obtained by phoning RAymond 3-6549 or by writing to 5400 Jillson Street, Los Angeles 22.

New Cooling Tower Firm

Formation of the new cooling tower engineering firm of Slough-DeFlon brings together two experienced and outstanding men in the industry, Jack M. Slough and James G. DeFlon.

J. M. Slough has spent approximately twelve years in the cooling tower industry and has contributed widely to its development into a science. His experience includes six years with the Fluor Corporation, where he was in charge of the Research and Development Department of the Manufacturing Division. Later he was manager of the Wood Products Division for Fluor, and also vice-president and general manager of Santa Fe Tank and Tower of Texas, a subsidiary company.

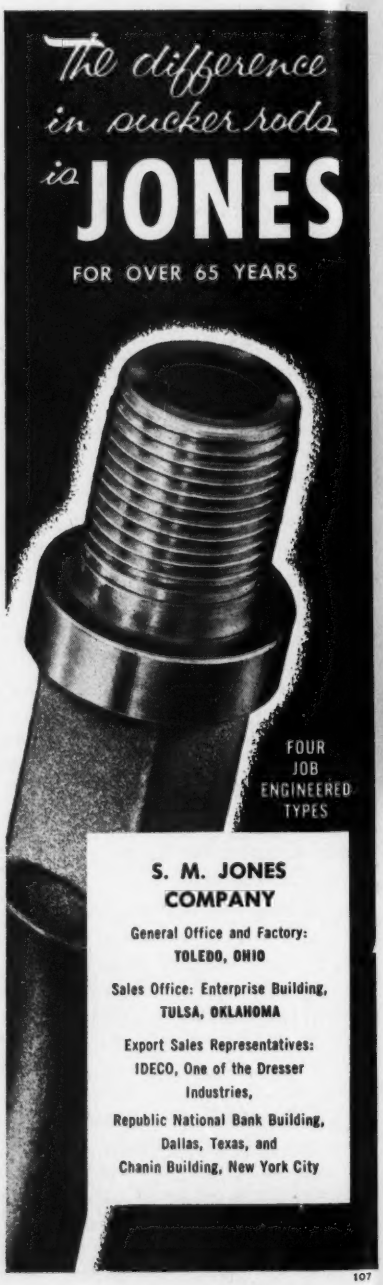
J. G. DeFlon has been widely known in the cooling tower industry for the past eighteen years. He was formerly manager of Engineering and Development for the Fluor Products Corporation where he initiated many new developments which today are accepted as standard. Previous to this time, he was chief engineer for the Santa Fe Tank & Tower Company. In 1949 he was sent to Europe to initiate the English firm of Head-Wrightson in the cooling tower field. Today this is the largest cooling tower manufacturer in Europe.

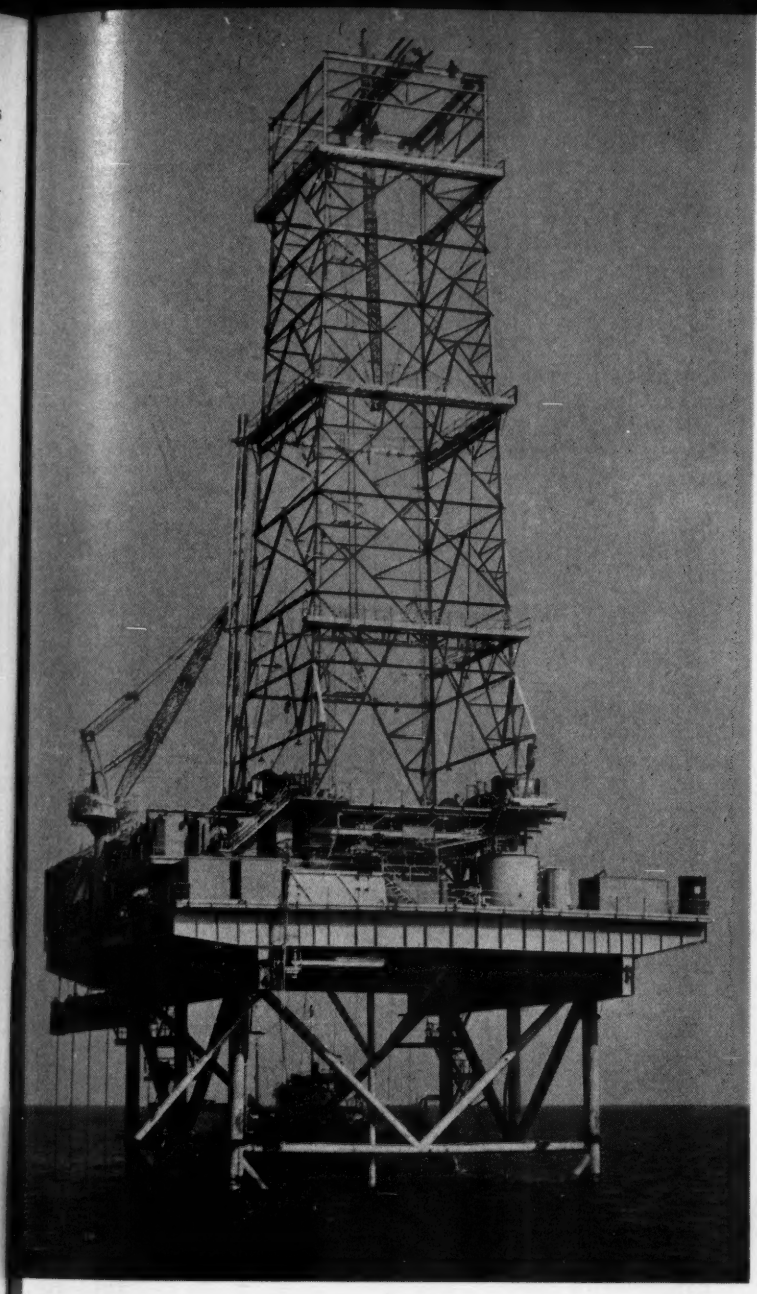
The firm will maintain headquarters in San Marino, California with agents in strategic areas throughout the country.

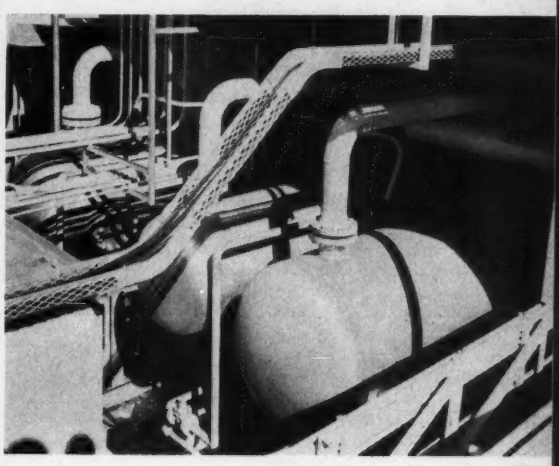
Effective immediately, the organization of **Edwin W. Pauley** is now Pauley Petroleum, Inc., with location at 717 North Highland Avenue, Los Angeles 38, California.

J. M. Slough

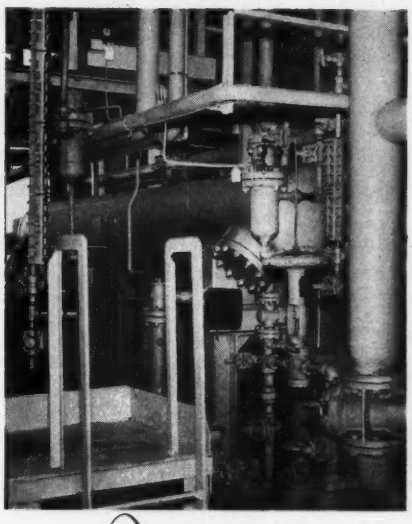
J. G. DeFlon







BS&B EQUIPMENT GOES TO SEA



In 100-ft. deep water two miles offshore from Summerland stands California's first permanent-type drilling platform. Equipped with twin crown blocks, this 1,000-ton structure is capable of drilling two wells simultaneously, and will drill up to a total of 25 wells from its present location.

On an installation of this kind, space is at a premium. Aboard the platform the BS&B horizontal production separators with BS&B controls were specially designed to provide compactness, minimum maintenance, and heavy-duty service.

BS&B

ANOTHER EXAMPLE OF PRODUCT LEADERSHIP

BLACK, SIVALLS & BRYSON, INC., WEST COAST SALES AND SERVICE DIVISION

759 N. Highland Ave., Los Angeles 38 Dept. I-BK11 8915 Rosedale Highway, Bakersfield

NEW LITERATURE

Swab Bulletin Offered

Byron Jackson Tools, Inc., a subsidiary of Borg-Warner Corporation, offers a new 4-page, 3-color bulletin covering its new hydro-dynamic tubing swab. The swab has a simple, two-piece steel body designed to accommodate a pair of either of two types of swab rubbers—cup type or multi-disc type. Any tubing swab operation can be performed with the one body and two types of rubbers. The efficient swab falls faster because of annular clearance going down, and adjusts itself to any size load on the way up. Included in the bulletin are color photographs and diagrams illustrating the use of the new swab, along with complete specifications for tubing swabs and components.

The bulletin may be obtained by writing to Byron Jackson Tools, Inc., P. O. Box 2017-A, Terminal Annex, Los Angeles 54, California.

Packer Retriever Bulletin

A four-page folder describing a Packer Retriever, a new tool which offers a safe measure for retrieving drillable production packers, is now available from the manufacturer. The folder covers the tool's use and advantages, with illustrations of the tool in operation, sectional drawings, and complete instructions for release and resetting procedure. Bowen ITCO, Inc., P.O. Box 4587, Houston 13, Texas.

Facilities Brochure

Sargent Engineering Corporation has published a 52-page Brochure detailing the history, organization and complete facilities available for research, design, qualification and manufacture of hydraulic, pneumatic, electronic and mechanical components. Copies are available from Sargent Engineering Corporation, 2533 E. Fifty-Sixth Street, Huntington Park, California.

Producing Properties To Acquire Oceanic

A contract has been entered into whereby the Producing Properties, Inc. of Dallas, Texas, will acquire all of the assets of the Oceanic Oil Company of Los Angeles, California.

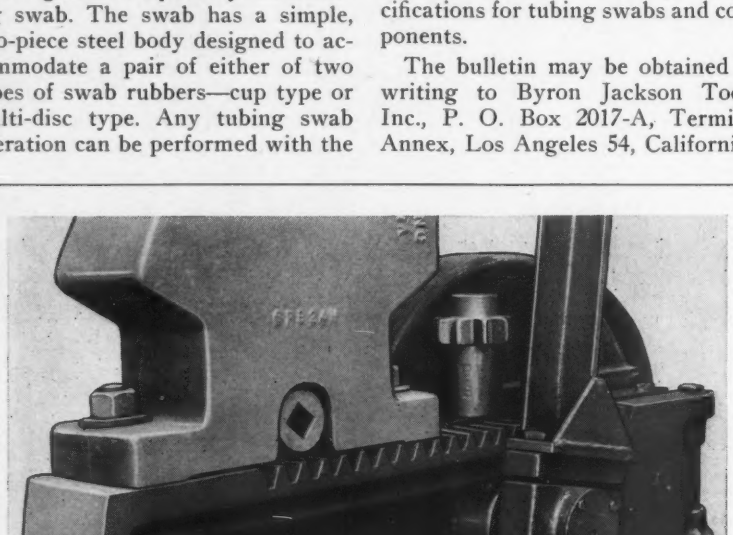
The announcement, in the form of a joint statement by Robert J. Bradley, president of Producing Properties, and J. Russell Sherman, president of Oceanic Oil, said that after the necessary meeting of the stockholders of both companies in December, Oceanic Oil Company will be liquidated and a new issue of Producing Properties common stock will be issued to present holders of Oceanic Oil stock.

Producing Properties recently acquired the Continental Production Company's holding in the Wilmington field in Los Angeles County.

The acquisition is the 39th consecutive purchase by Producing Properties, Inc. since it was founded three and one-half years ago, during which time it has acquired approximately $50,000,000 of properties.

Terminal Drilling Phone Change

Effective November 1st, one of Terminal Drilling and Productions Co., Wilmington office telephone numbers has been changed from NEvada 6-1414 to SPruce 5-1346.



NEW

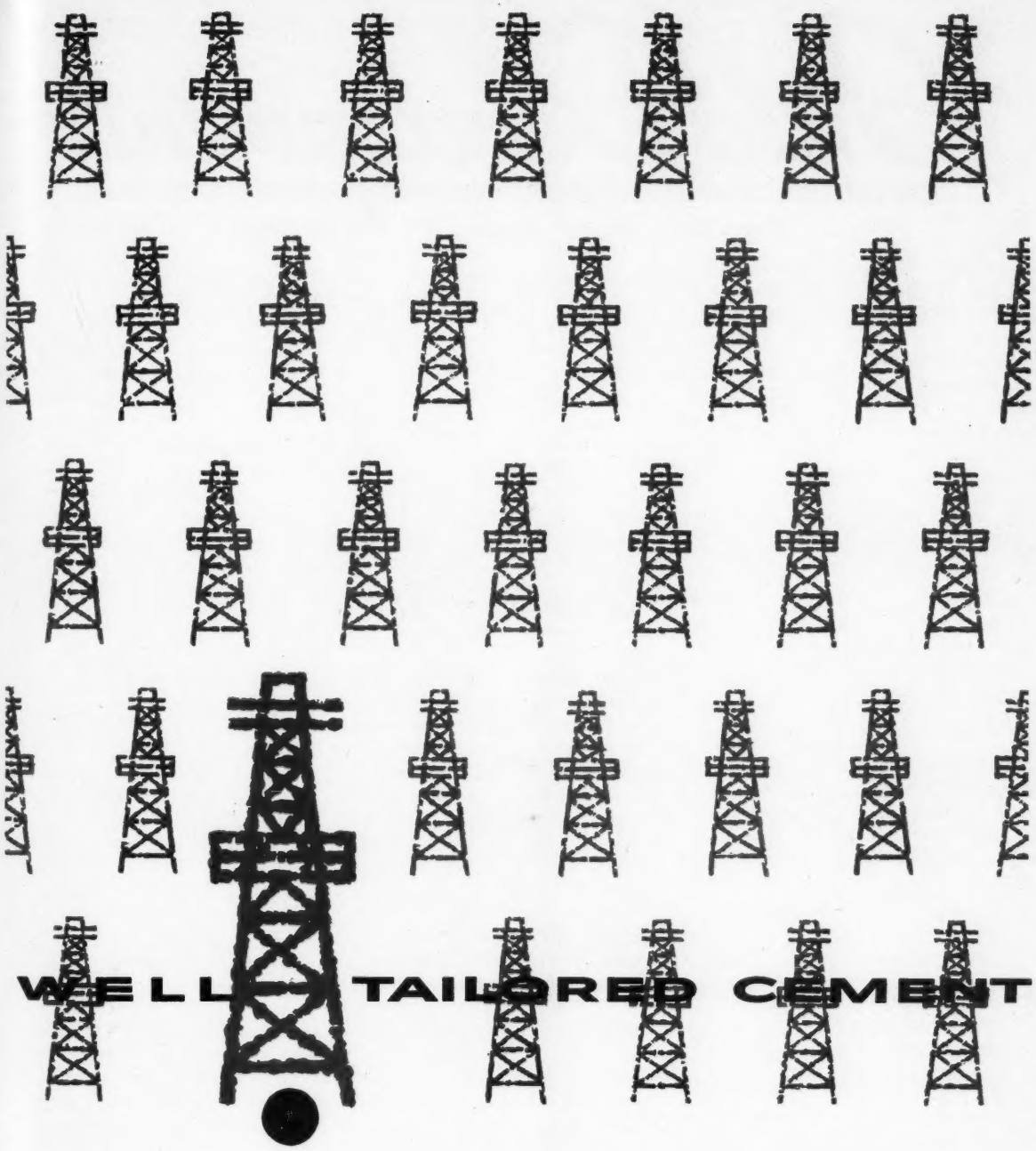
JENSEN ROTARY COUNTERBALANCE

Jensen's rack-and-pinion system makes weight adjustments a safe and simple operation for just one man—standing on the ground. Gives both lead and lag counterbalance, requires no special equipment. And that's just one of the many forward-looking features you'll find on the all-new JENSEN ROTARY BALANCED JACK. For the full story, call, wire or write us—today!

STOCKED BY YOUR LOCAL SUPPLY STORE

Made by JENSEN BROS. MFG. CO., INC., P.O. Box 477-C, Coffeyville, Kansas
Export Office: 250 Park Avenue, New York 17, N. Y.

JENSEN JACKS



Whatever your well conditions—any depth, pressures to 20,000 psi or temperatures to 400°F—there is a Permanente Cement for the job. All types are available for "right now" delivery.

KAISER Permanente CEMENT

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Oakland • Los Angeles • Portland • Seattle • Pasco • Anchorage • Fairbanks • Honolulu

Field Development

Pacific Coast and "4" Corners

LOS ANGELES BASIN

Temple-Vermont Test Suspends

Guiberson and Burke have suspended their Texam-Stolkin-Culter No. 1 in Section 19-1s-13w after redrilling the section from 1800 feet to 4100 feet. Total depth of the test is 6544 feet.

Castaic Junction Test

Standard Oil Company has staked location for Newhall Land & Farming No. 13-1, a wildcat test approximately 1400 feet north and 2300 feet east from the southwest corner of Section 28-4n-16w.

Wilmington Water Flooding Starts

Atlantic Oil Company has started pilot water flooding on a Los Angeles Harbor Department lease. The present well will be a shallow test to locate water source to repressure the Ranger Zone in Fault Block No. 1 west of Wilmington.

San Bernardino County Wildcat

Euclid Petroleum Company is drilling below 600 feet on Euclid No. 1, a 2500-foot test in Section 7-3s-7w in the Chino-Mahala area. The test is located 1500 feet southeast of production.

Tapia Canyon Well Abandons

Crown-Huntington Oils Limited has abandoned its Tapia Canyon test, Dodge No. 3, on Section 31-5n-16w, at a depth of 1112 feet.

Beverly Hills Activity

Hudson Gas and Oil Corp. has announced a location for third test on the Los Angeles Country Club property. Los Angeles Country Club No. 3 will be drilled 980 feet north and 917 feet west from the southeast corner of Section 23-1s-15w. Los Angeles Country Club No. 2 is drilling below 8121 feet.

Hillcrest Country Club Area

Signal Oil and Gas Company's Signal-Richfield-Hillcrest No. 1 well, near the intersection of Pico Boulevard and Peg Place on Section 25-1s-15w, is gun perforating for production. Total depth of the well is 10,219 feet with 7" casing cemented on bottom.

SAN JOAQUIN VALLEY

Pyramid Hills Deepening Job

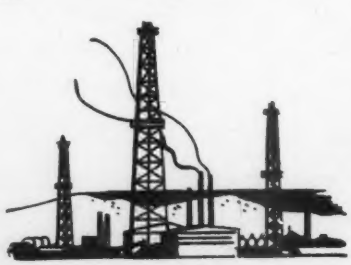
Bell Petroleum Company has taken over the Pearson-Sibert-Philadelphia-Orchard No. 37-30 well in Section 30-24s-18e and is preparing to deepen to approximately 7500 feet. The well was originally drilled by Doyle B. Barnes to a depth of 4340 feet and was abandoned in July, 1958.

Vallecitos Wildcat Test

Franco Western Oil Company is grading location for Ashurst No. 88X-27, an extension test located in the southeast corner of Section 27-16s-11e.

East Gosford Area

Union Oil Company completed KCL No. 27X-13 in Section 13-30s-26e, good for 320 b/d of 29 gravity oil cuting 3.0 per cent water. Total depth of the well is 10,300 feet with 7" casing cemented at 10,293 feet and gun perforated from 10,228 feet to 9,290 feet.



Strand Test For Ohio

The Ohio Oil Company has staked location for KCL No. 77-17 near the southeast corner of Section 17-30s-26e. The test is slated to go to 10,000 feet.

Guijarral Hills Abandonment

Sunray Mid-Continent Oil Co. has abandoned Sunray-McCulloch-Sanger No. 26-2 in Section 2-21s-16e. Located on the southwest edge of the Guijarral Hills field, the well reached a total depth of 11,140 feet before being abandoned.

Buena Vista Activity

Honolulu Oil Corp.'s Calidon No. 10 in Section 19-31s-23e, an out-post test, has apparently made a new gas discovery. On a test of the interval 3867 feet to 3945 feet, the flow was in excess of 6 million cubic feet per day through a ½" bottom hole bean. The well is now drilling ahead below 5310 feet.

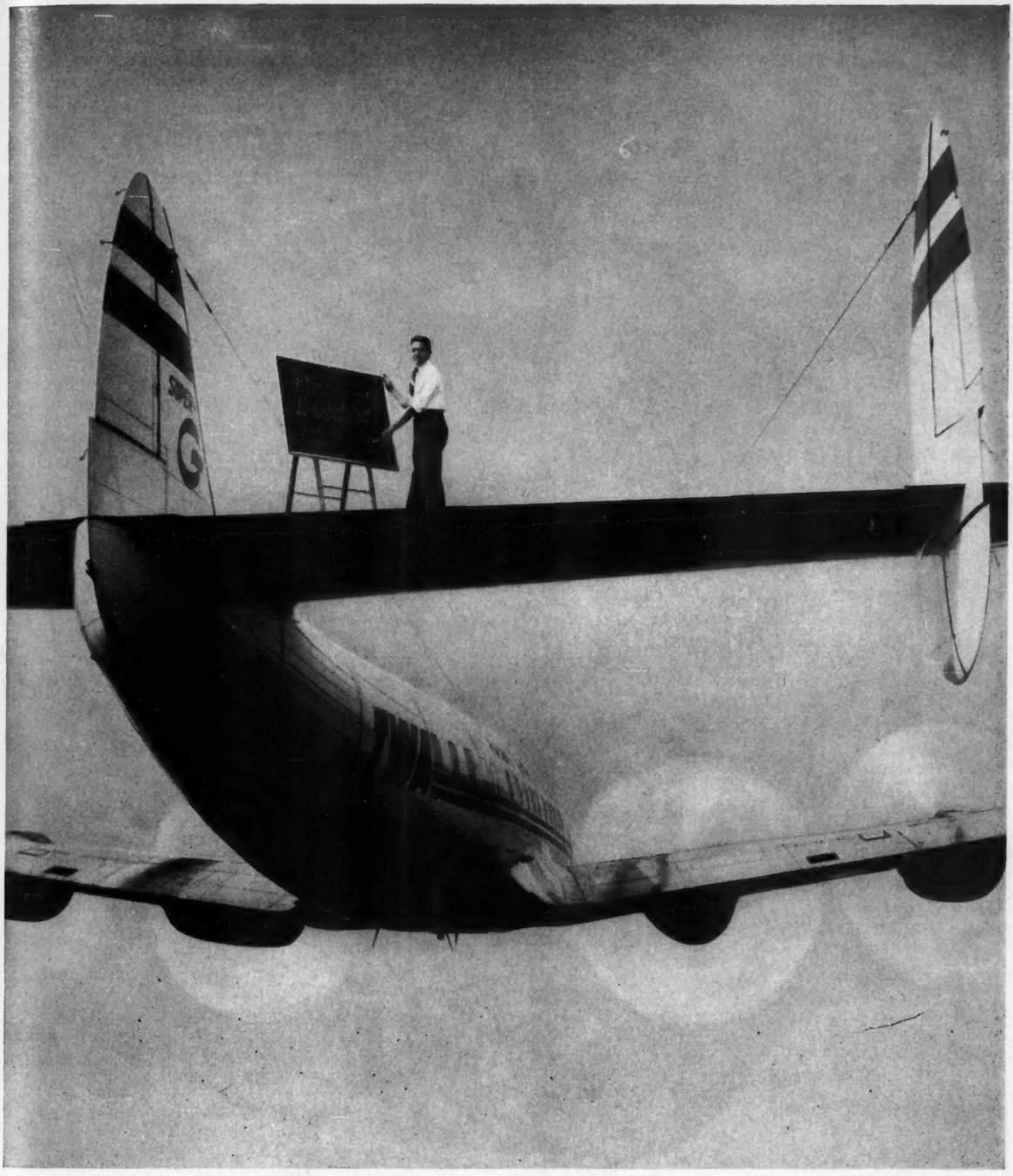
North Tejon Area

Reserve Oil and Gas Company is grading location for Reserve-Dunlavy No. 115-20 near the west one-quarter corner of Section 20-11n-19w. The test is an easterly offset to its well No. 385-19 completed flowing at a 700 b/d rate as a new Olcese Pool discovery.

Reserve Oil and Gas Company completed B.W. 348-18 in Section 18-11n-19w flowing 920 b/d of 32.4 gravity oil cutting 1 per cent through an 18/64" bean with 1700 psi flow pressure. The well was drilled to 12,432 feet and has 7" casing cemented at 11,262 feet. A 5" liner is perforated at intervals from 12,239 feet to 11,262 feet.

Reserve Oil and Gas Company's well No. 338-17 in Section 17-11n-19w has reached the total depth of 12,216 feet and is testing for a water shut-off on the 7" casing cemented at 11,631 feet.

Richfield Oil Corporation has reached a total depth on KCL-G No.



Oilmen should be up in the air. An oil company physicist and his slate of equations may seem out of place in the sky. But airmen couldn't get off the ground without oilmen. Oil helped fly more than 50 million passengers on U. S. air lines last year. Oil research helps new jet passenger planes span the country in less than four hours. Remember these things when you hear misinformed people talk against your industry. Speak up then and there—tell how you help give America wings! **SHELL OIL COMPANY**

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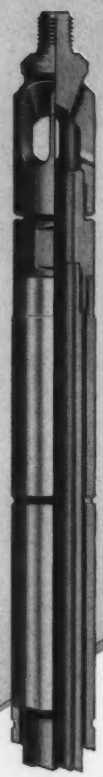
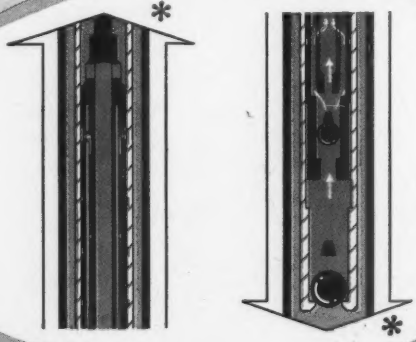


Using a combination of very simple hydraulic principles, coupled with the most practical mechanical design, the Oil Lubricated Plunger actually establishes a new set of standards for down-well plunger performance and continues to prove itself an important engineering achievement.

The unique principle employs the use of an annular chamber within the plunger body to separate clean oil from sand and water.



A continuous film of clean oil is supplied by pump action to lubricate the close fit between the barrel and plunger. As a result of this design, abrasion problems have been materially reduced and barrel and plunger service life improved in all water-cut conditions.

The range of usage for the Oil Lubricated Plunger seems virtually unlimited. In casing, tubing and insert installations its performance has proven commendable.

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63-24 in Section 24-11n-20w at 11,418 feet and is testing for water shut-off on 5" preparatory to completing. The 9⅝" casing is cemented at 9692 feet. A successful completion would be a Deeper Pool Eocene Discovery.

Belgian Anticline Well Deepening

Trico Oil and Gas Company has taken over the Mary C. Hagood well No. 43-12 on Section 12-30s-20e and is redrilling below 2150 feet. The hole was originally drilled by Pacific Western Oil Corp. in 1954 to a depth of 2718 feet and abandoned.

Bakersfield Directional Test

Union Oil Company has spudded Oakstreet No. A-1 and is drilling below 2650 feet. The surface location of the test is near the east one-quarter corner of Section 26-29s-27e; however the 7500 foot test is being directionally drilled to the south and east and will be bottomed under the town lot area of Bakersfield.

Moffat Ranch Gas Test

Union Oil Company is drilling Union-Texas-U. S. Royalty No. 77-17 in Section 17-12s-15e. The gas test is located about two miles southeast of the Moffat Ranch Gas Field.

Mountain View Well Plugs

Norris Oil Company's Norris-Frick No. 41 - 16 in Section 16 - 31s - 29e, reached a total depth of 10,409 feet and has been plugged back for a test of the interval 9860-10,010 feet. On a previous test of the interval 8870-8960 feet, the well blew gas and 1000 feet of oil was recovered in the drill pipe.

Paloma Edge Test Abandons

Standard Oil Company has abandoned KCL Lease 43 No. 57 in Section 4-32s-26e. The test, located on the south flank of the Paloma Field, was drilled and cored to a total depth of 10,366 feet.

McKittrick Outpost Test

Standard Oil Company is drilling below 3200 feet on its Universal Consolidated-USL No. 18-4Z in Section 4-30s-22e. This 6500-foot test is located near the southwest corner of Section 4,

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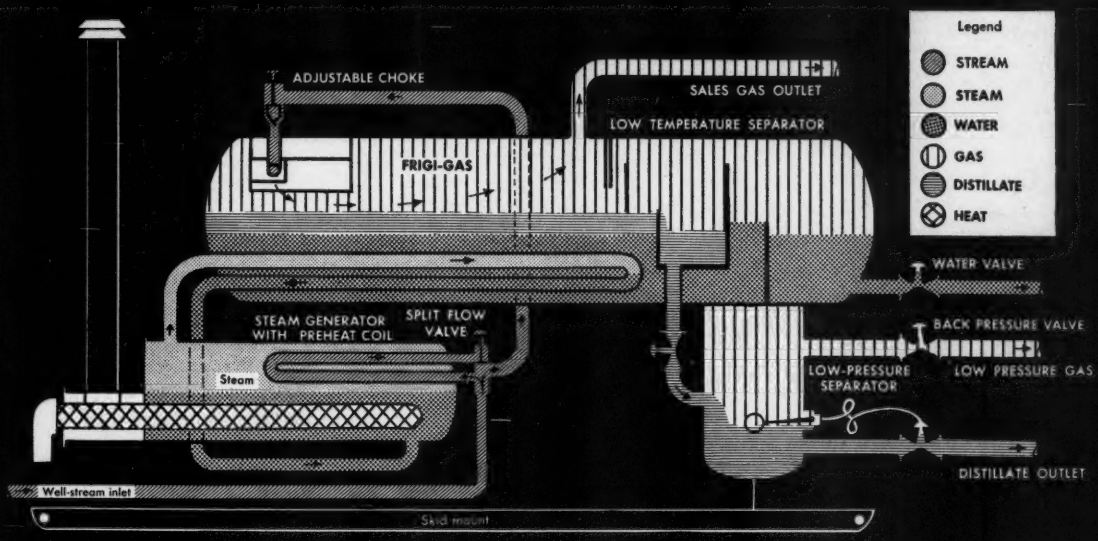

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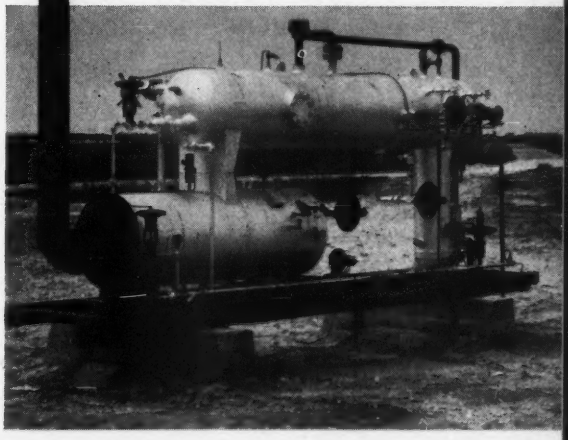

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approximately one mile northeast of the McKittrick field production.

Midway-Sunset Test

A. S. Mayes & Associates is grading location for Hagood No. 55-4, a wildcat test in Section 3-11n-24w. Location for the test falls approximately one-half mile west of production.

Texaco-Seaboard Test

Texaco-Seaboard, Inc. has staked location for General Petroleum No. 54X-20. Located 2400 feet south and 2200 feet west from the northeast corner of Section 20-11n-23w, the well is 1600 feet south of No. 52X-20 which was drilled to 7000 feet and tested five B/D from the interval 1320-1350 feet.

Rio Bravo Gas Test

The Superior Oil Company, Operator for Rio Bravo Shallow Gas Sand Unit, is grading location for Burner No. 6-G near the south one-quarter corner of Section 27-28s-25e.

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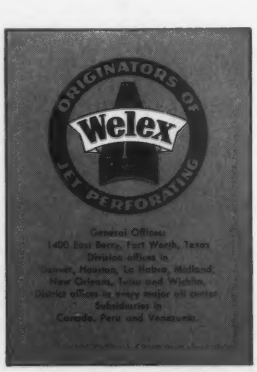

San Ardo Wildcat Abandons

The Texas Company's Rosenberg No. 174 on Section 28-22s-10e, one mile west-northwest of production, drilled to 2781 feet and has been abandoned.

COASTAL AREA

Nipoma Point Wildcat

Four miles northeast of the Guadalupe Field, The Texas Company is grading roads and preparing location for a wildcat test designated as Serpa No. 1, to be drilled in projected Section 36-11n-35w.

San Mateo County Well Abandons

Neaves Petroleum Developments, Neaves - Texaco - Consolidated Farms No. 1 in Section 1-7s-5w, northwest of the La Honda field production, drilled to 3517 feet, ran an electric log, and has been abandoned.

Springville Dome Wildcat

Franco Western Oil Co. will drill Shell-Standard-Pierce No. 2, located near the intersection of Wright and Beardsley Roads in Section 20-2n-21w. The well will be a 7000-foot test, approximately 1500 feet to the northwest of the company's Del Tio No. 1 which was abandoned at a depth of 7020 feet.

Avenue Extension Abandons

The Ohio Oil Company has abandoned Ohio-Sunray-Sexton No. 1 located on Section 31-3n-22w approximately two miles southeast of the Ventura Avenue field. The test was drilled and cored to 9360 feet.

South Mountain Completion

In the Bridge Area of the South Mountain Field, Shell Oil Company completed Saticoy No. 9 in Section 15-3n-21w flowing 1590 b/d of clean oil through a ½" bean with 950 psi tubing pressure and 1600 psi casing pressure. The well was drilled to 9825 feet and a bottom hole plug placed at 9290 feet. The 5½" casing is landed at 9290 feet, cemented through perforations at

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8562 feet and is perforated at intervals from 9285 feet to 7728 feet.

Santa Barbara County Offshore

The Texas Company has announced a location for Texas-Monterey-P.R.C. 2206.1 No. 1, an offshore test out from Gaviota. The test will be drilled in projected Section 12-4n-33w on Block D.

Shiells Canyon Area

The Texas Company is starting a water injection program in the Shiells Canyon field. Location has been staked for six wells, all located in Section 4-3n-19w.

NORTHERN CALIFORNIA

Colusa County Wildcat Abandons

After sidewall sampling and running a series of tests, Western Gulf Oil Company has abandoned Eddy Unit No. 1 in Section 19-13n-1w. Located three miles southeast of the Arbuckle Gas Field, the test reached a total depth of 8100 feet.

Glenn County Gas Test

Ferguson & Bosworth, Bakersfield operators, are drilling below 1500 feet on their Kalpure-Montague-Baker No. 1 in Section 4-20n-2w. The wildcat gas test is approximately two miles north of the present productive limits of the Beehive Bend Gas Field.

Princeton Test For Humble

North of the Princeton Gas Field in Colusa County, Humble Oil & Refining Company is drilling below 3000 feet on Joe Gomez No. 2, located 650 feet north and 2400 feet east from the southwest corner of Section 24-18n-2w.

Butte County Abandonment

Davidor and Davidor abandoned Slusser No. 1 in Section 29-20n-1e at a depth of 2343 feet. The test was located three miles south of the Durham Gas Field.

Solano County Abandonment

Amerada Petroleum Corporation has abandoned its Liberty Farms Unit No. 2 in Section 13-5n-2e, an extension test of the Maine Prairie Gas Field, after drilling and coring to 6450 feet.

Contra Costa Test Abandons

In the Port Chicago area, Western Petroleum Company's Stoeckle No. 1 in Section 12-2n-2w has been abandoned. Drilled to 1725 feet, two intervals in the well tested wet.

Glenn County Test Quits

Six miles southwest of the town of Orland, Humble Oil & Refining Company has abandoned Ernest Michael No. 1 in Sec. 33-22n-4w at a total depth of 13,717 feet.

OTHER STATES

Snohomish County Abandonment—Washington

Standard Oil Company has abandoned Silvania Community No. 12-1 at a total depth of 7419 feet. The test was located 15 miles north-northwest of the town of Everett in Section 12-31N-4E.

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Island County Test—Washington

Standard Oil Company is moving in equipment for a test 25 miles northwest of the town of Everett. The test, Engstrom Community No. 1, is scheduled to go to 5000 feet and is located near the center of Section 17-30n-2e.

Linn County Test—Oregon

Linn County Oil Development Company of Lebanon, Oregon, is preparing to drill Barr No. 1, a 5000 foot test in Section 32-11s-1w. The well is approximately 14 miles southeast of the town of Albany. Sills Drilling Company has the contract to do the drilling.

New Wildcat Spuds—Imperial County

Border Oil and Gas Corporation of Yuma, Arizona, is drilling below 1500 feet on its Well No. 1, a 3000-foot test on Section 16-16s-17e in Imperial County. The well site is near the Mexican border, about ten miles southeast of Holtville, California.

Servicing Depot In Alaska

Announcement has been made of Alaska's first oil industry servicing depot, which is now in operation in Anchorage, by Houston Oil Field Material Company, Inc. "The new depot represents our belief in the tremendous oil potential of our 49th state, and is timed to keep pace with the operations of major oil companies and prominent drillers," Mr. O'Leary, president of HOMCO said.

Under the direction of Oil Equipment, Ltd., a wholly-owned subsidiary of HOMCO, and C. L. (Hal) Roach, vice-president in charge of Canadian operations, the Anchorage depot is equipped with a complete line of directional tools, fishing tools, bumper jars, overshots, bumper subs and a string of wash pipe.

FOUR CORNERS AREA

Utah—San Juan County

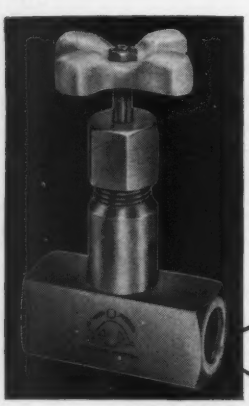
Four new tests have been announced for San Juan County.

Skelly Oil Company will drill Summit Point No. 1, a 9500 foot Mississippian test located in the southwest one quarter of Section 21-31s-25e.

Triton Oil Company, Sun Oil Company and Kilroy Oil Company will drill Haverweep No. 1 in the southeast one-quarter of Section 18-39s-26e. The well will be a 6300 foot Paradox test.

The Texas Company has a location for Navajo Tribe-V No. 1, a 6500 foot Hermosa test in Section 36-41s-20e.

El Paso Natural Gas Company will drill Desert Creek No. 1 in the southwest one-quarter corner of Section 18-42s-23e.



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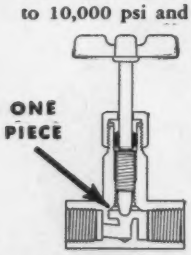

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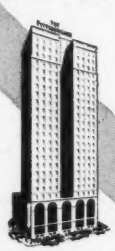

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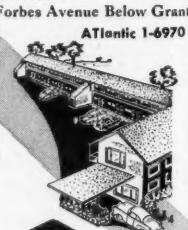

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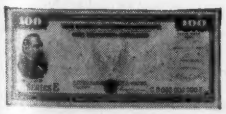

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"Were there a lot of girls looking for husbands on that holiday cruise you took?"

"No, but there were a lot of husbands looking for girls."

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A woman bought a canary from a pet store.

"You're sure this bird can sing?" she asked suspiciously.

"He's a wonderful singer," she was told.

Three days later: "Say! This silly bird you sold me is lame?" she complained.

"Well, what do you want?" the dealer replied. "A singer, or a dancer?"

We always called a spade a spade until we hit our foot with one the other day.

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"What's the matter?" his father asked.

"Nothing," said the child, "except I can't seem to get waited on."

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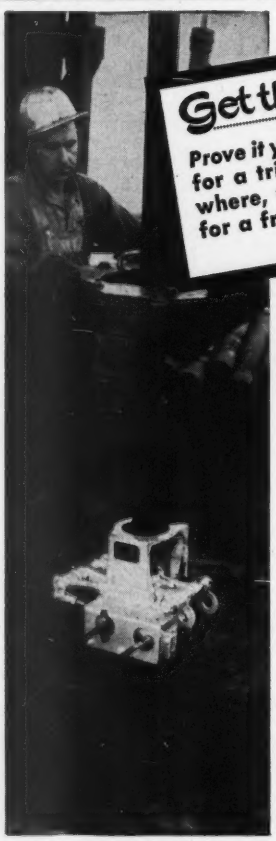

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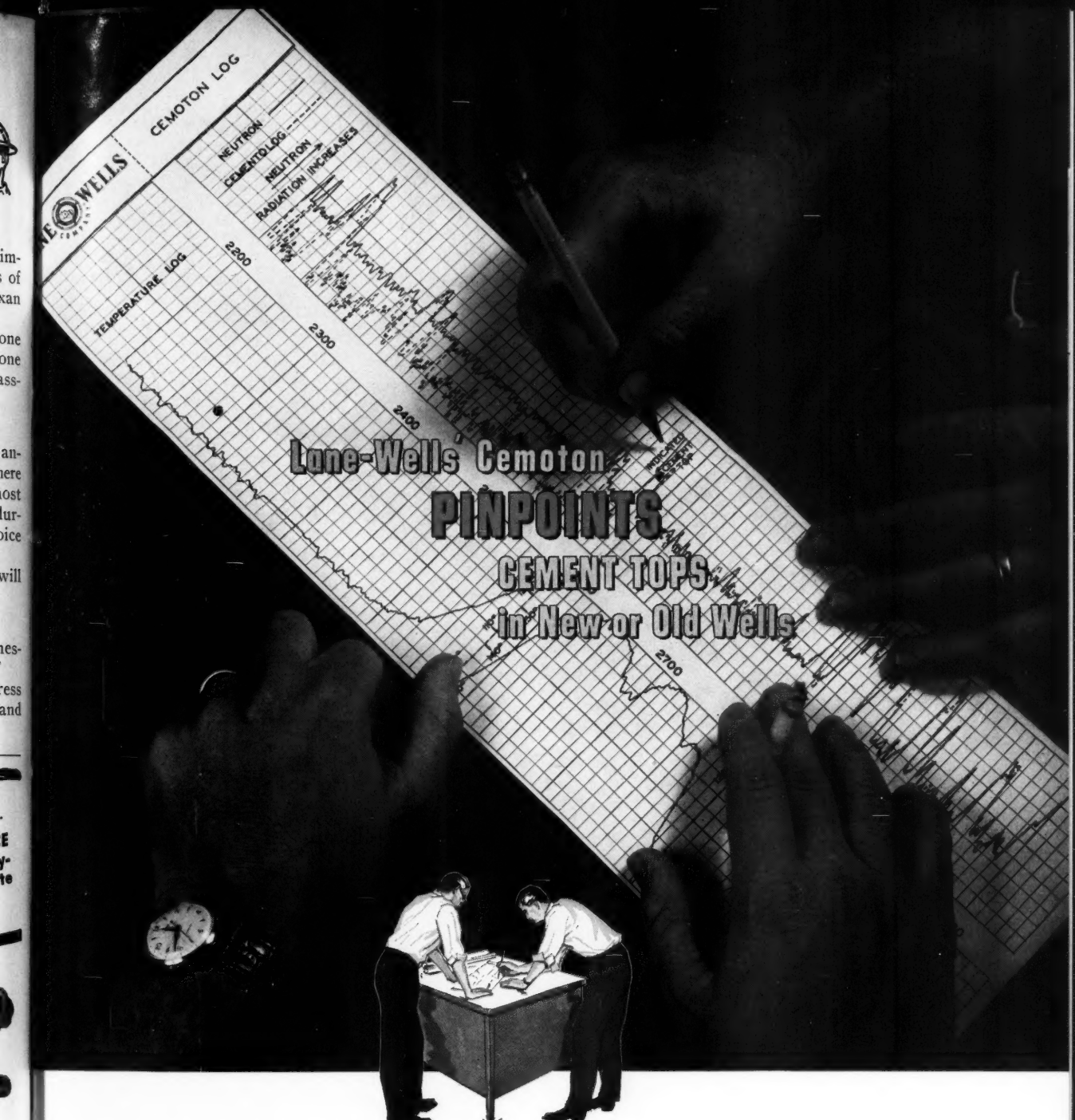

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In-the-well performance proves HI-TEN is the one rod with the necessary chemical properties to resist the most severe sweet or sour corrosion. Well after well, you'll find a string of D+B HI-TEN rods is the best answer for a corrosion problem.

PUMP HEAVIEST LOADS

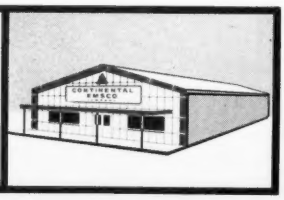
HI-TEN's muscle really shows in pumping your deep and heavily loaded wells . . provides the ultimate in ductility and toughness with maximum yield strength. The high alloy electric furnace steel used in D+B HI-TEN always assures profit-making long life.

Let your Continental-Emsco man keep you supplied with HI-TEN sucker rods from local stocks as well as other D+B sucker rods and accessories.

For Service that Sings . . Equipment that Hums . . Go . .

CONTINENTAL-EMSCO

Serving the Oil and Gas Industries ... Worldwide



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